Sequence

98, Appl
6, Appl
6, Appl
98, Appl

Sequence

```
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BLOSUM62
Gapop 10.0 ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        262574 seqs,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                March 13, 2003, 12:33:48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-674-266A-181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Issued_Patents_AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RLSCAGTLSGSGPHPSRRLT.....DTALLLDNMKKALKLLKTEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
/cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
/cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
/cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
/cgn2_6/ptodata/1/iaa/B_COMB.pep:*
/cgn2_6/ptodata/1/iaa/backfiles1.pep:*
                                                                                                                                                                                                                                                                                                                                                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000000000
                           BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29422922 residues
          US-08-916-576B-2
US-09-247-155-106
US-09-247-155-174
US-08-916-576B-6
US-09-247-155-174
US-08-916-576B-7
US-08-916-576B-7
US-08-916-576B-7
US-08-916-576B-7
US-08-916-576B-7
US-09-918-540-7
US-09-918-540-7
US-09-913-63B-5
US-09-013-185-53
US-08-913-185-53
US-09-082-614A-53
US-09-082-614A-53
US-09-082-614A-53
US-09-082-614A-53
US-09-082-614A-53
US-09-082-614A-53
US-09-082-714-887-52
US-09-082-714-887-52
US-09-082-714-887-52
US-09-329-714-8
US-08-821-984-8
US-09-329-714-8
US-08-821-984-8
US-09-329-714-8
                                                                                                                                                                                                                                                                                                                                                                                               SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Search time 23 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (without alignments)
263.527 Million cell updates/sec
             sequence
                                                                                                                                                                                                                                                                                                                                                       Description
                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                6, Appli
4, Appli
5, Appli
7, Appli
7, Appli
7, Appli
5, Appli
5, Appli
5, Appli
17, Appli
17, Appli
17, Appli
17, Appli
18, Appli
 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 1
US-08-916-576B-2
                                                                            US-08-916-576B-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 2, Application US/08916576B Patent No. 6171816 GENERAL INFORMATION:
                                       Query Match
Best Local :
                          Matches
                                                                                                                                                                     FILING DATE:

FILING DATE:

PRIOR APPLICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/024,347

FILING DATE: 23-AUG-1996

ATTORNEY/AGENT INFORMATION:

NAME: STEFFE, ERIC X.

REGISTRATION NUMBER: 36.688

REFERENCE/DOCKET NUMBER: 1488.05000

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION 175-640
                                                                                                                                   TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION DATA: APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: YU, GUO-LIANG
APPLICANT: DILLON, PATRICK J.
APPLICANT: EBNER, REINHARD
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
                                                                                         MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY:
                                                                                                   LENGTH: 175 amino acids TYPE: amino acid TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET: 1100 NEW CITY: WASHINGTON
                                                                                                                          LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: DC
                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: STERNE, KESSLER, GOSTREET: 1100 NEW YORK AVENUE,
32 MEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEE 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20005-3934
                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                      SD
                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  თთთთთთთთთთთთთთთ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   84.6%;
100.0%;
                                                                                                                                                                                                                                                                                                                   US/08/916,576B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-372-783-98
US-08-372-105-98
US-08-366-473A-98
US-08-261-660A-4
US-08-261-660A-98
US-08-473-344-98
US-08-473-344-98
US-08-377-391A-2
US-08-379-400-2
US-08-955-660-2
US-08-955-660-2
US-08-955-660-2
US-08-957-162-98
US-08-957-162-98
US-09-224-480-98
US-09-935-453-2
US-09-395-453-2
US-09-396-453-2
                          0;
                                                                                                                                                                                                      1488.0500001
                                       Score 899;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           GOLDSTEIN & FOX, P.L.L.C.
                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                             Version
                          . 1.2e-95;
thes 0;
                                                 DB 4;
                                                                                                                                                                                                                                                                                                                                             #1.30
                                                Length 17,5;
                          Indels
```

Result

Ö

Match

Query

71 71 71 70.5 70.5

0;

Gaps.

0

605 555 448 222 81.5 81.5 81.5 78 77

84.6 84.6 57.3 556.9 52.2 7.7 7.7 7.7 7.7 7.3 7.3

Database

Minimum DB Maximum DB

seq

length:

Scoring table: Sequence: Perfect score:

1063

Run on:

STREET:

1100 NEW YORK AVENUE,

SUITE 600

```
рь
                                                                                                                                                                                                                                                                                           QΥ
                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                            Q
                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                            Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/247,155A
CURRENT FILING DATE: 1999-02-09
EARLIER APPLICATION NUMBER: 60/074,121
EARLIER FILING DATE: 1998-02-09
EARLIER APPLICATION NUMBER: 60/081,563
EARLIER FILING DATE: 1998-04-13
EARLIER FILING DATE: 1998-04-13
EARLIER FILING DATE: 1998-096,116
EARLIER FILING DATE: 1998-10-04
EARLIER APPLICATION NUMBER: 60/099,273
EARLIER APPLICATION NUMBER: 60/099,273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            멍
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                            US-08-916-576B-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-247-155-106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-247-155-106
                                                                                                                      Sequence 8, Application Patent No. 6171816 GENERAL INFORMATION:
APPLICANT: YU, GUO-L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Patent.pm
SEQ ID NO 106
LENGTH: 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity Matches 175; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 106, App
Patent No. 631292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Duclert, Aymeric
APPLICANY: Bougueleret, Lydie
TITLE OF INVENTION: Complement
FILE REFERENCE: GENSET 021A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Dumas Milne Edwards, Jean-Baptiste
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: SIGNAL LOCATION: -20..-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
   NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, K
                                                      APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
                                                                                       APPLICANT:
                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       152 DGQYVPRIMEVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLLKTEL 206
                                                                                                                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                               92 ALYKSKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP 151
                                                                                                                                                                                                                                                                                                                                                                                                                32 MEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEE 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                             MEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEE 60
                                                                                                                                                                                                                                                                                                                              ALYKSKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ALYKSKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ALYKSKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/09247155A
                                                                                     YU, GUO-LIANG
DILLON, PATRICK J.
EBNER, REINHARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             84.6%;
                                                                                                                                                                             US/08916576B
      KESSLER,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ementary DNAs
                                                                                                                                                                                                                                                                                                                                                                                                                                                              GOLDSTEIN & FOX, P.L.L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           60
                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                            δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Вр
SOFTWARE: Pat
SEQ ID NO 174
                                      NUMBER OF SEQ ID NOS:
```

```
CURRENT APPLICATION NUMBER: US/09/247,155A
CURRENT FILING DATE: 1999-02-09
EARLIER APPLICATION NUMBER: 60/074,121
EARLIER FILING DATE: 1998-02-09
EARLIER APPLICATION NUMBER: 60/081,563
EARLIER APPLICATION NUMBER: 60/096,116
EARLIER APPLICATION NUMBER: 60/096,116
EARLIER FILING DATE: 1998-08-10
EARLIER FILING DATE: 1998-08-10
                                                                                                                                                                                                                                                                                                                                                                    RESULT 4
US-09-247-155-174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-916-576B-8
                                                                                                                                                                                                                                                                                                                                               Sequence 174, Application US/09247155A
                                                                                                                                                                                                                                                                                                                          Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                    APPLICANT: Bougueleret, Lydie
TITLE OF INVENTION: Complementary DNAS
FILE REFERENCE: GENSET 021A
EARLIER APPLICATION NUMBER: 60/099,273 EARLIER FILING DATE: 1998-10-04
                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (202) 371-2540 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                    APPLICANT: Dumas Milne Edwards, Jean-Baptiste
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: amino acid
STRANDEDNESS: not
TOPOLOGY: linear
MOLECULE TYPE: pepti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: 14
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: Patentin Rel CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA: APPLICATION NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                   119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      156 VPRIMEVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLLKTEL 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH:
                                                                                                                                                                                                                                                                                                         INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 VPRIMFVDPSLTVRADIXGRYGNRLYAYEPXDXPLLIXNMKKALKLLKTEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AXXSNKPLMVIHHLEDCPYSQALKKVFAENXEIQELAQNFVMLNLVHETTDENLSPDGQY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSPDGQY 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LGACLLLVALSXXLA-----XXXXKGKDXRPIKGPQTLSRGWGDXIXWVQTYEEGLXK 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            122;
                                                                                                                                                                                                                                                                                                                                63129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20005-3934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WASHINGTON
                                                                                                                                                                                                                                                                 Duclert, Aymeric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 170 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             not relevant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            57.3%;
71.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Release #1.0, Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US 60/024,347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US/08/916,576B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               36,688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 609.5; DB 4
Pred. No. 2.5e-62;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1488.0500001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      #
|-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ŋ
```

Patent.pm

ORGANISM: Homo sapiens

131

FEATURE:

```
δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; LOCATION: 40,41,43,60,70,76,82,86,105,107
; OTHER INFORMATION: Xaa = any one of the twenty amino acids US-09-247.-155-174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-916-576B-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 117; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 6,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                   TELEFAX: (202) 371-254.

NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
NAME/KEY: UNSURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: -20..-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: SIGNAL
                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 166 amino acids
                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC compatible OPERATING SYSTEM: PC.DOS/MS-DOS SOTWARE: Patentin Release #1.0, CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                   REFERENCE/DOCKET NUMBER: 14
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 DGQYXP 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                152 DGQYVP 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              92 ALYKSKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP 151
                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                             COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 XLXKSKTSNKPLMIIHHLDXCPHSQALKKXFAENKXIQKLAXQFVXLNLVYETTDKHLSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                32 MEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEE 91
                 TOPOLOGY:
                                                                                                                                                                     NAME: STEFFE, ERIC REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                             CLASSIFICATION: 536
                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
                                                                                                                   TELEPHONE:
                                                LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEX 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , Application US/08916576B
6171816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WASHINGTON
TYPE: protein
                              amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 E: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C 1100 NEW YORK AVENUE, SUITE 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DILLON, PATRICK EBNER, REINHARD
                                                                                                                       (202)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GUO-LIANG
                                                                                                                                                                                       ERIC K.
                                                                                                   371-2540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     56.9%;
92.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NOVEL HUMAN GROWTH FACTORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PATRICK J.
                                                                                                                       371-2600
                                                                                                                                                                                                                                       US 60/024,347
                                                                                                                                                                                                                                                                                                           US/08/916,576B
                                                                                                                                                                36,688
                                                                                     6:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 605; DB 4; 1
Pred. No. 5.6e-62;
                                                                                                                                                     1488.0500001
                                                                                                                                                                                                                                                                                                                                             Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 131;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
```

```
Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q
δõ
                                 В
                                                               Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-916-576B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Db
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ф
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δÃ
                                                                                                                                                                      US-08-916-576B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                      Matches
                                                                                                                    Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 108;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local
                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C. STREET: 1100 NEW YORK AVENUE, SUITE 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: Patentin Rel CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                  TOPOLOGY: 1i
                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US 6 FILING DATE: .23-AUG-1996 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 160 MFVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLLKTEL 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                120 MFVDPSLTVRADIAGRYSNRLYTYEPRDLPLLIENMKKALRLIQSEL 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 101 KPLMIIHHLDECPHSQALKKVFAENKEIQKLAE-QFVLLNLVYETTDKHLSPDGQYVPRI 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11 LLLVTVSSNLA--IAIK-----KEKRP--PQTLSRGWGDDITWVQTYEEGLFYAQKSK 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    41 LLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEEALYKSKTSN 100
 90
                                                                                                                                                                                                                                         TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: 1100 NEW CITY: WASHINGTON
                                                                                                                                                                                                                      STRANDEDNESS:
                                                                                                                                                                                                                                                      LENGTH:
                                                                                                                                                                                                                                                                                                           TELEFAX:
                                                                                                                                                                                                                                                                                                                         TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0500001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
                                 σ
EEALYKSKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLA-EQFVLLNLVYETTDKH 148
                                 SLVCLVLLCSALGEAVLKKPKKQAGTTDTKTDQEPAPIKTKGLKTLDRGWGESIEWVQTY 65
                                                               AFLLLVALSYTLARDTTVKP----GAKKDTKDSRPKLP-----QTLSRGWGDQLIWTQTY 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KPLMVIHHLEDCQYSQALKKVFAQNEEIQEMAQNKFIMLNLMHETTDKNLSPDGQYVPRI
                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              , Application US/08916576B
6171816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                        amino acid
                                                                                                                                                                                                                                                                                                                                                                                         STEFFE, ERIC K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20005-3934
                                                                                                                                                                                                                                                      183 amino acids
                                                                                                                                                                                                                                                                                                      (202) 371-2600
(202) 371-2540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ENDRESS, GREGORY A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DILLON, PATRICK J. EBNER, REINHARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              E: Floppy disk
IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             YU, GUO-LIANG
                                                                                                                                                                                                      linear
                                                                                                                                                                                    peptide
                                                                                                                                                                                                                      not relevant
                                                                                                                   42.1%;
49.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NOVEL HUMAN GROWTH FACTORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        52.28;
64.78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                            US 60/024,347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US/08/916,576B
                                                                                                   29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28; Mismatches
                                                                                                                   Score 448; DB 4;
Pred. No. 1.1e-43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 555; DB 4;
Pred. No. 4.5e-56;
                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19;
                                                                                                                                 Length 183;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 166;
                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12;
                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                 Ψ
```

```
RESULT 8
US-08-884-681-5
Sequence 5, Application US/08884681
                                                                                         В
                                                                                                                      δõ
                                                                                                                                                        Db
                                                                                                                                                                                     á
                                                                                                                                                                                                                       В
                                                                                                                                                                                                                                                      ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 4, Application US/08916576B
Patent No. 6171816
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
APPLICANT: EDILLON, PATRICK J.
APPLICANT: EBNER, REINHARD
APPLICANT: ENDRESS, GREGORY A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                          US-08-916-576B-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-916-576B-4
                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (202) 371-25. INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: 14
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: PC-D
SOFTWARE: PatentIn Rel
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 172 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION:
                                                                                                                         165
                                                                                                                                                                         107 HHLDECPHSQALKKVFAENKEIQKLAEQFVLLNL--VYETTDKHLSPDGQVVPRIMFVDP 164
                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       149
                                                                                                                                                          61
                                                                                                                                                                                                                                                    66 DSRPKLPQT------LSRGWGDQLIWTQTYEEALYKSKTSNKPLMII 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: 1100 NEW CITY: WASHINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: STEFFE, ERIC K.
REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 20005-3934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/916,576B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE:
                                                                                                                                                                                                                      2 ETRPRLGATCLLGFSFLLLVISSDGHNGLGKGFGDHIHW-RTLEDGKKEAAASGLPLMVI 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLL 202
                                                                                                                                                        IHKSWCGACKALKPKFAESTEISELSHNFVMVNLEDEEEPKDEDFSPDGGYIPRILFLDP 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SGKVHPEIINENGNPSYKYFYVSAEQVVQGMKEAQERL 158
                                                                                                                                                                                                                                                                                                                                                                                                        amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      E: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C. 1100 NEW YORK AVENUE, SUITE 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ENDRESS, GREGORY A.
VENTION: NOVEL HUMAN GROWTH FACTORS
                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (202) 371-2540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-AUG-1996
                                                                                                                                                                                                                                                                                                        20.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US 60/024,347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Release #1.0, Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        36,688
                                                                                                                                                                                                                                                                                        26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1488.0500001
                                                                                                                                                                                                                                                                                  Score 222; DB 4; Pred. No. 1.1e-17; Standtches 56;
                                                                                                                                                                                                                                                                                                                      DB 4; Length 172;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #1.30
                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                       22;
                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                       ω,
```

```
QΥ
                                                                                                                                                                                                                                                                                                                                      Ωy
                                                                                                                                                                                                                                                                                                                                                                        В
                                                                                                    RESULT 9
US-09-258-643-5
                                                                                                                                                                                                    QΥ
                                                                                                                                                                                                                                       망
                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                       Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-884-681-5
                                                  Sequence 5, Application US/09258643 Patent No. 6277373 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Patent No. 5955338
                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO:
                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/81
FILING DATE: Filed Herewith
PRIGR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Corley, APPLICANT: Shah, P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Hillman, Jennifer APPLICANT: Lal, Preeti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 5
     APPLICANT:
                                                                                                                                                                     639 SKDSVTILNS 648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino a STRANDEDNESS: TOPOLOGY: lin
                                                                                                                                                                                                   185 PADTALLLON 194
                                                                                                                                                                                                                                                                                                                                      107 HHL----- DECPHSQALKKVFAENKEIQKLAE------ QFVLLNLVYETTDK-- 147
                                                                                                                                                                                                                                                                                                                                                                       476 TYKYDSKTDRWDSSGKCRVP----AWCDRILWRGTNVNQLNYRSHMELKTSDHKPVSAL 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: 3174 Por CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                      55 TVKPGAKKDTKDSRPK--LPQTLSRGWGDQLIWTQTYEEAL-YKS----KTS-NKPLMII 106
                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity 23.7 les 45; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LIBRARY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ENGTH:
                                                                                                                                                                                                                                                                        -HLSPDGQ-----YVPRIM-----
                                                                                                                                                                                                                                                                                                     FHIGVKVVDE----RRYRKVFEDSVRIMDRMENDFLPSLELSRREFVFENVKFRQLQKGK 586
                                                                                                                                                                                                                                       FQISNNGQVPCHFSFIPKLNDSQYCKPWLRAEPFEGYLEPNETV--DIS---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            94304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1420920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          901 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          E: Incyte Pharmaceuticals,
3174 Porter Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         415-845-4166
Hillman, Jennifer L.
Lal, Preeti
Corley, Neil C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GenBank
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Corley, Neil C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            415-855-0555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         single
                                                                                                                                                                                                                                                                                                                                                                                                                                                        7.78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US/08/884,681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>ن</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                          32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PF-0334 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 81.5; DB 2; Pred. No. 1.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                      -----FVDPSLTVRADITGRYSNRLYAYE 184
                                                                                                                                                                                                                                                                                                                                                                                                                                          46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 901;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                          67;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
```

```
DЪ
                                                                                                                                                                                                                                                                                                                          Qy
                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                      δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                     В
                                                                                                                                                                                                                                                               QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                δÃ
                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-258-643-5
                                                                                                                                                                      US-08-560-005-7
                                                                                                                                                                                      RESULT 10
                                                                                                                    Sequence 7, Application Patent No. 6001354
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
           APPLICANT: Majerus, Philip W.
TITLE OF INVENTION: No. 6001354el Grb2 Associating Protein and Nucleic TITLE OF INVENTION: Acids Encoding Therefor NUMBER OF SEQUENCES: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 1420920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: PFTELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 5
                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
                                                                                          APPLICANT:
                                                                                                        APPLICANT:
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                         107
                                                                                                                                                                                                                                                                                                                                                                                                                       476
                                                                                                                                                                                                                                   639 SKDSVTILNS 648
                                                                                                                                                                                                                                                               185 PADTALLLON 194
                                                                                                                                                                                                                                                                                                                            148 -HLSPDGQ-----YVPRIM---
                                                                                                                                                                                                                                                                                                                                                                                                                                        55 TVKPGAKKDTKDSRPK--LPQTLSRGWGDQLIWTQTYEEAL-YKS----KTS-NKPLMII 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE:
                                                                                                                                                                                                                                                                                               FQISNNGQVPCHFSFIPKLNDSQYCKPWLRAEPFEGYLEPNETV--DIS-----LDVYV
                                                                                                                                                                                                                                                                                                                                                         FHIGVKVVDE----RRYRKVFEDSVRIMDRMENDFLPSLELSRREFVFENVKFRQLQKGK
                                                                                                                                                                                                                                                                                                                                                                                      HHL-----QFVLLNLVYETTDK-- 147
                                                                                                                                                                                                                                                                                                                                                                                                                     TYKYDSKTDRWDSSGKCRVP-----AWCDRILWRGTNVNQLNYRSHMELKTSDHKPVSAL 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       94304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       amino acid
                                                                                                                                                       Application US/08560005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               E: Incyte Pharmaceuticals, 3174 Porter Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       901 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    415-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                        Williams, Lewis T.
Jefferson, Anne Bennett
                                                                                                          Pot, David A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      415-855-0555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7.7%;
23.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US/08/884,681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US/09/258,643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PF-0334 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 81.5;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                          --- FVDPSLTVRADITGRYSNRLYAYE 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DВ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 901;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               67;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13;
```

```
US-09-418-540-7
; Sequence 7, Application
; Patent No. 6296848
                                                                                                                                                                                                                                                                                                                                                                                                 Db
                                                                                                                                                                                                                                                                                                                                                                                                                              δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-08-560-005-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best
                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 415-326-2422 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 29,684
REFERENCE/DOCKET NUMBER: 23
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Crew
                                                                                                                              APPLICANT: Jeffersc
APPLICANT: Majerus,
TITLE OF INVENTION:
                                                                                                                                                                              APPLICANT: APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
                                                                                                NUMBER OF SEQUENCES:
                                                                                                                TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                   714 SKDSVTILNS 723
                                                                                                                                                                                                                                                                                                                                                                                                 662 FQISNNGQVPCHFSFIPKLNDSQYCKPWLRAEPFEGYLEPNETV--DIS--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 606 FHIGVKVVDE----RRYRKVFEDSVRIMDRMENDFLPSLELSRREFVFENVKFRQLQKGK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              107 HHL-----DECPHSQALKKVFAENKEIQKLAE-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   551 TYKYDSKTDRWDSSGKCRVP-----AWCDRILWRGTNVNQLNYRSHMLLKTSDHKPVSAL
                                                                                                                                                                                                                                                                                                                                                                185 PADTALLLDN 194
                               CITY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                55 TVKPGAKKDTKDSRPK--LPQTLSRGWGDQLIWTQTYEEAL-YKS----KTS-NKPLMII 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity 23.7%; les 45; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                  -HLSPDGQ----YVPRIM---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            94105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         San Francisco
                             San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dow, Karen B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         California
               California
                                                                                               Pot, David A. Williams, Lewis T. Williams, Lewis T. Jefferson, Anne Bennett Majerus, Philip W. Majerus, Philip W. No. 6296848el Grb2 Associating No. 6296848el Grb2 Associating Therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    968 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      E: Townsend and Townsend and Crew One Market Plaza, Steuart Tower,
                                                One Market Plaza,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Region 1..968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    415-326-2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein
                                                                                                                                                                                                                                                  US/09418540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note= "ocr1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US/08/560,005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29,684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 81.5;
Pred. No. 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2307K-0624000
                                                Steuart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                Tower,
                                                                                                                                                                                                                                                                                                                                                                                                                                -FVDPSLTVRADITGRYSNRLYAYE 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 3;
                                              Suite 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Suite 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ----QFVLLNLVYETTDK--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 968;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                 Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   67;
                                                                                                                                 and
                                                                                                                                                                                                                                                                                                                                                                                                 -LDVYV 713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                 Nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   605
```

```
밁
                                                                                                                                                                                                                                                                                                                                                                                 RESULT 12
US-09-534-638-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; LOCATION: 1..968
; OTHER INFORMATION:
US-09-418-540-7
                                                                    GENERAL INFORMATION:

APPLICANT: Panula, Pertti A.J.

APPLICANT: Brandt, Annika

APPLICANT: Westerlund, Johanna

APPLICANT: Westerlund, Johanna

TITLE OF INVENTION: promoter for Neuropeptide FF Promoter and use thereof

TITLE OF INVENTION: for therapy and diagnosis

FILE REFERENCE: 2530-104

CURRENT APPLICATION NUMBER: US/09/534,638

CURRENT APPLICATION NUMBER: US/09/534,638

CURRENT APPLICATION NUMBER: 09/365755

EARLIER APPLICATION NUMBER: 09/365755

EARLIER FILING DATE: 1999-08-03

NUMBER OF SEQ ID NOS: 22

SOFTWARE: Datenttr Vac. 21
                                     SOFTWARE: PatentIn SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                        Sequence 5, Application US/09534638 Patent No. 6320038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: 7:
LENGTH: 1
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION: TELEPHONE: 415-326-2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 08/560,005 FILING DATE: 17-NOV-1995 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn Release #1.0, CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       714 SKDSVTILNS 723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           107 HHL-----DECPHSQALKKVFAENKEIQKLAE------QFVLLNLVYETTDK-- 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             185 PADTALLLDN 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              148 -HLSPDGQ-----YVPRIM-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      606 FHIGVKVVDE----RRYRKVFEDSVRIMDRMENDFLPSLELSRREFVFENVKFRQLQKGK 661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       551 TYKYDSKTDRWDSSGKCRVP-----AWCDRILWRGTNVNQLNYRSHMLLKTSDHKPVSAL 605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 968 amino acids TYPE: amino acid TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               55 TVKPGAKKDTKDSRPK--LPQTLSRGWGDQLIWTQTYEEAL-YKS----KTS-NKPLMII 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REGISTRATION NUMBER: 29
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Match 7.7%;
Local Similarity 23.7%;
es 45; Conservative 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FQISNNGQVPCHFSFIPKLNDSQYCKPWLRAEPFEGYLEPNETV--DIS-----LDVYV 713
                      129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Dow, Karen B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Region
1..968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 415-326-2422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-OCT-1999
                                                           Ver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note- "ocrl"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US/09/418,540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29,684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 81.5; DE Pred. No. 2; 32; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2307K-0624000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -----FVDPSLTVRADITGRYSNRLYAYE 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Version #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 4; Length 968;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels 67;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13;
```

```
ΩV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δλ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Вр
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δÃ
                                                                                                          ; LIBRARY: LUNGNO;
; CLONE: 1376382
US-09-013-881-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Дb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ORGANISM: Mouse US-09-534-638-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-013-881-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Patent No. 6132964
                                                          Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity 22.9
Matches 16; Conservative
                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 453 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Guegler, Karl J.

APPLICANT: Shah, Purvi
TITLE OF INVENTION: HUMAN HYDROLASE-LIKE MOLECULES
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
TOUTH Bharmacouticals. Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: PF
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                       IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       104 MIIHHLDECP 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE: CA
              25 VRKSRVAMEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLI 84
                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                          NAME: BILLINGS, LUCY J
REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        63 TPVSRLSQSP 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 44 VALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEEALYKSKTSNKPL 103
                                                                                                                                                                                  STRANDEDNESS:
                                                                                                                                                                                                                                                                                TELEFAX: 650-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE:
                                                                                                                                                                                                                 LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3 IALFYILLTCSNTSPSSRNSTQSGSPQAPVVDSDRWEDTVLWAVLLQKCLLSFPSSQFSM 62
                                             al Similarity 22.5%;
45; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               94304
                                                                                                                                                                                                    amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       E: Incyte Pharmaceuticals, Inc
3174 Porter Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hillman, Jennifer Corley, Neil C. Guegler, Karl J.
                                                                                                                                       LUNGNOT10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lal, Preeti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bandman, Olga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IBM Compatible
                                                                                                                                                                      linear
                                                                                                                                                                                                                 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                      HEREWITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Diskette
                                                                                                                                                                                      single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7.3%;
22.9%;
- :::-
                                           7.3%; Score 78; DB 4; Length 453
22.5%; Pred. No. 1.7;
ive 34; Mismatches 79; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US/09/013,881
                                                                                                                                                                                                                                                                                                                                          36,749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14; Mismatches
                                                                                                                                                                                                                                                                                                                               PF-0470 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 78; D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ۲
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 4; Length 129;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               . 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                              42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
```

```
δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Вb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      QΥ
                                                                     RESULT 15
US-08-313-185-53
                                                                                                                                            밁
                                                                                                                                                                         οy
                                                                                                                                                                                                              В
                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 14
PCT-US92-05401-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ₽
                                                                                                                                                                                                                                                                                                                                                        PCT-US92-05401-4
                Sequence 53, Application US/08313185 Patent No. 5851763 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 4, Application PC/TUS9205401 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: 212-645-2054
INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION: TELEPHONE: 212-645-1405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
NAME: Felt, Irving N.
REGISTRATION NUMBER: 28,601
REFERENCE/DOCKET NUMBER: LE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
                                                                                                                                      1000 LGLLSPQAQVEDSRNNLVLRTSSLHLSLTGCRLPK 1034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
   APPLICANT:
                                                                                                                                                                         128 IQKLAEQFVL----LNLVYETTDKHLSPDGQYVPR 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                344 DYK-LLDMLQYYLNLTEANL 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    289 QFYGHTHRDSIMVLSDKKGSPVNS----LFVAPAVTPVKSVLEKQTNNPGIRLFQYDPR 343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         232 W---LESTLNNSQQNKEKVYIIAHVPVGYLPSSQNITAMREYYNEKLIDIFQKYSDVIAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            187 LRKGGFYSQKVTTNPNLRIISLNTNLYYGPNIMTLNKTDP-------ANQFE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STATE: NEW YORK
                                                                                                                                                                                                                                                                                 Local Similarity nes 27; Conserv
                                                                                                                                                                                                                                              68 RPKLPQTLSRGWGDQLIWTQTYEEALYKSKTSNKPLMIIHHLDECPHSQALKKVFAENKE 127
                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: AMINO ACID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WTQTYEEALYKSKTSNKPLMIIHH--LDECPHSQ---ALKKVFAE----NKEIQKLAE 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    QF---VLLNLVYETTDKHLSPDGQYVPRIMFVDPSLTVRADITGRYSN----RLYAYEPA 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DTALLLDNMKKALKLLKTEL 206
                                                                                                                                                                                                              RPSFP-NLTSFLGCQL---ADAEEAMYQN------VDGRVSECPHTYQNRRPFSREMD 999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  E: IMCLONE SYSTEMS INCORPORATED 180 VARICK STREET
                                                                                                                                                                                                                                                                                                                                                                                                                          1160 amino acids
                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lemischka, Ihor R.
Heym, Beate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19920626
                                                                                                                                                                                                                                                                                                   7.3%;
28.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RECEPTORS AND THEIR LIGANDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOTIPOTENT HEMATOPOIETIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCT/US92/05401
                                                                                                                                                                                                                                                                                   17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LEM-3-PPPPPT
                                                                                                                                                                                                                                                                                                   Score 78;
Pred. No.
                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                   78; DB 5;
No. 6.7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #1.25
                                                                                                                                                                                                                                                                                   35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STEM CELL
                                                                                                                                                                                                                                                                                                                Length 1160;
                                                                                                                                                                                                                                                                                 Indels 16;
                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         288
                                                                                                                                                                                                                                                                                   4;
```

```
Query Match
Best Local Similarity
Watches 49; Conserva
 Search completed: March 13, 2003, 13:28:09 Job time: 27 secs
                                                                             Вb
                                                                                                                                                    В
                                                                                                                                                                                     Qγ
                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                            οy
                                                                                                                                                                                                                                                                                                  DЬ
                                                                                                                                                                                                                                                                                                                                     Qy
Job time :
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; MOLECULE TYPE: US-08-313-185-53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: (202) 408-4400 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Honore, Nadine APPLICANT: Telenti, Amalio APPLICANT: Telenti, Amalio APPLICANT: Bodmer, Thomas TITLE OF INVENTION: Rapid Del TITLE OF INVENTION: in Mycoba NUMBER OF SEQUENCES: 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: 02
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                         145 TDKHLSPD---GQYVPR--IMFVDPSLTVRADI-----
                                                                             379
                                                                                                                                                                                                                                                                                                  211 GPNHS-PLSAAAAIRTFRMGMNDEETVA---LIAGGHTLGKTHGAGPASHVGPPEAAPIE 266
                                                                                                                                                  325 APDIIPDPFDPSKKRKPTMLVTDLLRFDPEYEKISRRFLNDPEFEAFARAW-----FKL 378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Meyers, Kenneth J. REGISTRATION NUMBER: 25,146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 12
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/08/313,185 FILING DATE: 12-OCT-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC OPERATING SYSTEM:
                                                                                                                                                                                                                                                              72 PQTLSRGWGD-----
                                                                                                                                                                                                                                                                                                                                     12 GPHPSRRLTQGRWVRKSRVAMEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKL 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE:
                                                                                                                                                                                                                           AQGL--GWASSYGSGVGADAITSGEVVWTQTPTQWNFFENLFYEWVLTKSPAGAQEAVDG 324
                                                                             THRDMGPKRYIGPEVPKEDLIWQDPPQYPTEDIILKAAIAASGLVSELVSAWASAST 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20005-3315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       D.C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             652 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         E: Finnegan, Henderson, Farabow, Garrett
E: Dunner
1300 I Street, N.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cole, Stewart
Young, Douglas
Zhang, Ying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       USA
                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear
                                                                                                                                                                                      ---KTSNKPLMIIHHLDEC-PHSQALKKVFAENKEIQKLAEQFVLLNLVYET 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (202) 408-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             compatible
PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rapid Detection of Antibiotic Resistance in Mycobacterium Tuberculosis
                                                                                                                                                                                                                                                              ----YEEALYKS-----
                                                                                                                                                                                                                                                                                                                                                                                             7.2%;
20.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    53:
                                                                                                                                                                                                                                                                                                                                                                          32; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         02356.0068-00000
                                                                                                                                                                                                                                                                                                                                                                                           Score 77; DB Pred. No. 3.7;
                                                                                                                                                                                                                                                                                                                                                                                                            DB 2; Length 652;
                                                                                                               -TGRYSNRLYAYEPADT 188
                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                           72;
                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                96
```

		•	•			
•						
·						
				•	·	
			٠			
					n.	

```
Result
No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Minimum DB
Maximum DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
       Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       seq length: 0
seq length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Published_Applications_AA:*

1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*

2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*

3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*

4: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*

5: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*

6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*

7: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

9: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

9: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

11: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

12: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

13: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

14: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

15: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

16: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

17: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

18: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 March 13, 2003, 12:52:08; Search time 25 Seconds (without alignments) 379.799 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-674-266A-181
1063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 199416 seqs, 46092074 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                              Match
                                                                                                                                                                                                                                                                                                                                                                                                 Query
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gapop 10.0 ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 RLSCAGTLSGSGPHPSRRLT......DTALLLDNMKKALKLLKTEL
                       GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                              Length
       DΒ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gapext 0.5
   0 US-09-792-439-2

US-10-227-884-74

US-10-230-1637-74

US-10-218-631-74

US-10-078-338-74

US-10-078-337-6

US-10-078-337-6

US-10-078-337-6

US-10-027-884-116

US-10-027-96-54

US-10-066-273-54

US-10-066-273-54

US-10-066-269-54

US-10-066-193-54

US-10-066-193-54

US-10-066-111-54

US-10-066-111-54

US-10-230-338-116
                                                                                                                                                                                                                                                                                                                                         US-10-078-337-2
                                                                                                                                                                                                                                                                                                                                                                                                                                    SUMMARIES
Sequence 2, Appli
Sequence 74, Appli
Sequence 74, Appl
Sequence 74, Appli
Sequence 74, Appli
Sequence 8, Appli
Sequence 6, Appli
Sequence 6, Appli
Sequence 54, Appli
                                                                                                                                                                                                                                                                                                                                                                            Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               206
```

# D # C # C # C # C # C # C # C # C # C		
RESULT 1 US-10-078-3 Sequence Publicati GENERAL AP TI NU CO CO TI NU TI NU CO SE TE		20 20 20 20 20 20 20 20 20 20 20 20 20 2
JRRE JRRE SQUEECHLE	•	555 555 555 555 555 555 555 555 522 22 2
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
		166 168 168 168 168 172 172 172 172 172 172 172 172 172 172
JS/100783 J3068A1 J3068A1 J3068A1 PATRICK REINHARD S. GREGOR NOVEL SS: 45 SERESS: 45 STON FLOPPY d PORM: FLOPY d PORM: FLOPPY		9 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
J.  J.  Y A.  HUMAN GROWTH FACTORS  SSLER, GOLDSTEIN & FOX, AVENUE, SUITE 600  isk atible atible atible atiple ati	ALIGNMENTS	US-09-956-751-1 US-10-025-380-631 US-09-932-217-631 US-09-833-263-631 US-10-078-337-7 US-10-078-337-7 US-10-078-337-7 US-10-230-163-194 US-10-230-163-194 US-10-230-338-194 US-10-230-338-194 US-09-954-846-1 US-09-969-5287-7 US-09-969-5287-7 US-09-961-323-48 US-09-815-242-10732 US-09-815-242-13582 US-09-815-242-13582 US-09-815-242-13582 US-09-815-242-13582 US-09-97-859-6 US-09-97-859-6 US-09-97-859-8 US-10-004-139-2 US-10-004-139-2 US-10-004-7-542-89
P.L.L.C.		Sequence 1, Appli Sequence 631, App Sequence 631, App Sequence 631, App Sequence 194, Appli Sequence 194, App Sequence 194, App Sequence 194, Appli Sequence 194, Appli Sequence 7, Appli Sequence 7, Appli Sequence 10732, A Sequence 13244, A Sequence 13244, A Sequence 13582, A Sequence 8, Appli Sequence 8, Appli Sequence 8, Appli Sequence 8, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 3, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 3, Appli Sequence 3, Appli Sequence 3, Appli Sequence 3, Appli Sequence 3, Appli Sequence 3, Appli Sequence 189, Appli Sequence 189, Appli

```
; LENGTH: 175
; TYPE: PRT
; ORGANISM: human
US-09-792-439-2
                                                                                                                        RESULT 3
US-10-227-884-74
Sequence 74, Application US/10227884
Publication No. US20030027988A1
                                                                                                                                                                                                                                                               οy
                                                                                                                                                                                                                                                                                                 В
                                                                                                                                                                                                                                                                                                                              Ş
                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                  В
                                                                                                                                                                                                                                                                                                                                                                                           Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 2
US-09-792-439-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; MOLECULE TYPE: protein ; SEQUENCE DESCRIPTION: SEQ ID US-10-078-337-2
               APPLICANT: Baker, Kevin P.
APPLICANT: Desnoyers, Luc
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Goddwski, Paul
APPLICANT: Grimaldi, J. Chi
                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sequence 2, Application US/09792439
Patent No. US20020111303A1
GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Sim
Matches 175;
                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: FastSEQ SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Stamps, Alasdair Craig
APPLICANT: Terrett, Jonathan Alexander
APPLICANT: Tyson, Kerry Louise
TITLE OF INVENTION: Diagnostic and Therapeutic
FILE REFERENCE: 2543-1-005M
CURRENT APPLICATION NUMBER: US/09/792,439
CURRENT FILING DATE: 2001-02-23
CURRENT FILING DATE: 2001-02-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: GB 0004576.5
PRIOR FILING DATE: 2000-02-25
NUMBER OF SEQ ID NOS: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Boyd, Robert Simon APPLICANT: Stamps, Alasdair
                                                                                                                                                                                                                                                  152 DGQYVPRIMFVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLLKTEL
                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         152
                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                 92
                                                                                                                                                                                                                                                                                                                                                                                              32
                                                                                                                                                                                                                                                                                                                                                           Local Similarity es 175; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <u>بــ</u>
                                                                                                                                                                                                                                                                                          DGQYVPRIMFVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLLKTEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ALYKSKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ALYKSKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                              Desnoyers, Luc
Gerritsen, Mary
                                               Goddard, Audrey
Gurney,
                                                                                                                                                                                                                                                                                                                                                                                                                         84.6%; Score 899; DB 10; ilarity 100.0%; Pred. No. 2.6e-86; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           for Windows Version
 Austin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  84.6%;
               Christopher
                                4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 899;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 9; 1
2.6e-86;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 175,
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 175;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                           0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                               175
                                                                                                                                                                                                                                                              206
                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                            151
                                                                                                                                                                                                                                                                                                                                                              60
                                                                                                                                                                                                                                                                                                                                                                                           91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 91
                                                                                                                                                                                                                                                                                                                                                                                                                           0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/069873
PRIOR APPLICATION NUMBER: 60/078910
PRIOR APPLICATION NUMBER: 60/078910
PRIOR APPLICATION NUMBER: 60/078910
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
                                                                            PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                           PRIOR
PRIOR
                                                                                                                                                                                           PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                          PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT FILING DATE: 2002-08-26
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Watanabe, Colin L.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3530P1C79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/10/227,884
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DR APPLICATION NUMBER: 60/081819
DR FILING DATE: 1998-04-15
DR APPLICATION NUMBER: 60/081955
DR FILING DATE: 1998-04-15
DR APPLICATION NUMBER: 60/082804
DR FILING DATE: 1998-04-22
DR FILING DATE: 1998-04-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OR APPLICATION NUMBER: 60/079294
OR FILING DATE: 1998-03-25
OR APPLICATION NUMBER: 60/079656
OR FILING DATE: 1998-03-26
OR APPLICATION NUMBER: 60/079728
OR FILING DATE: 1998-03-27
                                                                                                                                                                                                                                                        OR FILING DATE: 1998-06-24

OR APPLICATION NUMBER: 60/0'

OR APPLICATION NUMBER: 60/0'

OR APPLICATION NUMBER: 60/0'

OR APPLICATION NUMBER: 60/0'

OR APPLICATION NUMBER: 60/0'
                                            FILING DATE: 1998-0: APPLICATION NUMBER:
                                                                        FILING DATE: 1998-08-10
APPLICATION NUMBER: 60/0
FILING DATE: 1998-08-11
APPLICATION NUMBER: 60/0
                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 60/089532
FILING DATE: 1998-06-17
APPLICATION NUMBER: 60/089538
                                                                                                                                                                                                                            APPLICATION NUMBER: FILING DATE: 1998-0
                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/090472
                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/089538 FILING DATE: 1998-06-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 60/084441
FILING DATE: 1998-05-06
APPLICATION NUMBER: 60/085323
FILING DATE: 1998-05-13
             APPLICATION
                           FILING DATE:
                                                                                                                                            APPLICATION NUMBER:
                                                                                                                                                           FILING DATE: 1998-08-04
                                                                                                                                                                         FILING DATE: 1998-08-04
APPLICATION NUMBER: 60/095318
                                                                                                                                                                                                           APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/089905 FILING DATE: 1998-06-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/086392 FILING DATE: 1998-05-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/085579 FILING DATE: 1998-05-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Stephan, Jean-Philippe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Smith, Victoria
                                                 : 1998-08-17
                            1998-08-26
                                                                                                                                                                                                                            1998-07-07
                                                                                                                                                                                                                                                                                                                                                           1998-06-24
                                            60/097986
                                                                                                            60/096146
                                                                                                                                            60/095916
                                                                                                                                                                                                           60/095302
                                                                                                                                                                                                                                             60/091982
                                                                                                                                                                                                                                                                           60/090695
                                                                                                                                                                                                                                                                                                           60/090691
                                                                                                                                                                                                                                                                                                                                           60/090557
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ŧ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUCLEIC
```

```
DR APPLICATION NUMBER: 60/108849
DR FILLING DATE: 1998-11-18
DR FILLING DATE: 1998-12-15
DR FILLING DATE: 1998-12-15
DR APPLICATION NUMBER: 60/113296
DR APPLICATION NUMBER: 60/113605
DR FILLING DATE: 1998-12-23
DR FILLING DATE: 1998-12-23
DR APPLICATION NUMBER: 60/113621
DR FILLING DATE: 1998-12-23
DR APPLICATION NUMBER: 60/113621
DR FILLING DATE: 1998-12-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DR FILING DATE: 1998-09-24

PR APPLICATION NUMBER: 60/106178

DR FILING DATE: 1998-10-28

PR APPLICATION NUMBER: 60/106248

DR FILING DATE: 1998-10-29

DR APPLICATION NUMBER: 60/106464

PR FILING DATE: 1998-10-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R FILING DATE: 1998-09-17
R APPLICATION NUMBER: 60/10
R FILING DATE: 1998-09-23
R APPLICATION NUMBER: 60/11
R APPLICATION NUMBER: 60/11
R FILING DATE: 1998-09-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RE APPLICATION NUMBER: 60/10
RE FILING DATE: 1998-09-15
RE FILING DATE: 1998-09-16
RE FILING DATE: 1998-09-16
RE APPLICATION NUMBER: 60/10
DE FILING DATE: 1998-09-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 60/
FILING DATE: 1998-09-24
APPLICATION NUMBER: 60/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 1998-11-17
APPLICATION NUMBER: 60/108801
FILING DATE: 1998-11-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 60/108787
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 60/106905
FILING DATE: 1998-11-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 60/101741 FILING DATE: 1998-09-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 1998-09-18 APPLICATION NUMBER: 60/100919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 60/100385 FILING DATE: 1998-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/
FILING DATE: 1998-09-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: FILING DATE: 1998-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60 FILING DATE: 1998-09-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 60/099811 FILING DATE: 1998-09-10
                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/115558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1998-09-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/101786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 1998-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER: 6: 1998-09-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1998-09-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1998-09-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                60/100848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          60/101922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60/101916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                60/101738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         60/101477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           60/100627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                60/100390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              60/100038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60/099816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60/099812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 60/099598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      60/099596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          60/099803
```

```
RESULT 4
US-10-230-163-74
; Sequence 74, Applicat
; Publication No. US200
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                     Q
                                                                                                                                                                                                                                                                                                                                   DЬ
                                                                                                                                                                                                                                                                                                                                                                                                             ф
                                                                                                                                                                                                                                                                                                                                                                                                                                             QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 160
                                                                               APPLICANT: Baker, Kevin APPLICANT: Desnoyers, I
                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                               152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OR FILING DATE: 1999-05-14
OR APPLICATION NUMBER: 60/140650
OR FILING DATE: 1999-06-22
OR APPLICATION NUMBER: 60/140723
OR FILING DATE: 1999-06-22
OR APPLICATION NUMBER: 60/141037
OR FILING DATE: 1999-06-23
OR APPLICATION NUMBER: 60/14758
OR APPLICATION NUMBER: 60/144758
OR FILING DATE: 1999-07-20
OR APPLICATION NUMBER: 60/146528
OR APPLICATION NUMBER: 60/146622
OR APPLICATION NUMBER: 60/146622
OR APPLICATION NUMBER: 60/146622
OR FILING DATE: 1999-07-28
OR APPLICATION NUMBER: 60/146622
OR FILING DATE: 1999-07-28
                                                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
mes 160; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1999-08-17
APPLICATION NUMBER: 60/
FILING DATE: 1999-08-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 60/146963
FILING DATE: 1999-08-03
APPLICATION NUMBER: 60/149320
FILING DATE: 1999-08-17
APPLICATION NUMBER: 60/149638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 1990-04-27
APPLICATION NUMBER: 60/131445
FILING DATE: 1999-04-28
APPLICATION NUMBER: 60/134287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 1999-11-16
APPLICATION NUMBER: 60/169445
FILING DATE: 1999-12-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/164418
FILING DATE: 1999-11-09
APPLICATION NUMBER: 60/166361
FILING DATE: 1999-11-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 60/131270 FILING DATE: 1999-04-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: 60/131022
FILING DATE: 1999-04-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/169495
FILING DATE: 1999-12-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/131291
                                                                                                                                                                                                                                                                           DGQYVPRIMFVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLLKTEL
                                                                                                                                                                                                                                                                                                                               DGQYVPRIVEVDPSLTVRADITGRYSNRLYAYEPSDTALLHDNMKKALKLLKTEL
Desnoyers, Luc
Gerritsen, Mary
Goddard, Audrey
Godowski, Paul J.
Grimaldi, J. Christopher
                                                                                                                                     Application US/10230163
No. US20030036635A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1999-04-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1999-04-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1999-03-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      78.18;
                                                                                                   ס
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                60/169835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60/151733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   60/127887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 830; DB 9; I
Pred. No. 4.1e-79;
8; Mismatches 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 175;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
```

151 60 91

0

APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:

1998-08-31

```
APPLICANT: Gurney, Austin L.
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe
APPLICANT: Watanabe, Colin L.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND THE TITLE OF INVENTION: ACIDS ENCODING
                                                                  PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE: P3530P1C96
CURRENT APPLICATION NUMBER: US/10/230,163
CURRENT FILING DATE: 2002-08-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HENT FILING DATE: 2002-06-28
OR APPLICATION NUMBER: 10/119,480
OR FILING DATE: 2002-04-09
OR APPLICATION NUMBER: 60/059113
OR FILING DATE: 1997-09-17
OR APPLICATION NUMBER: 60/06287
OR FILING DATE: 1997-10-17
OR APPLICATION NUMBER: 60/063549
OR FILING DATE: 1997-10-28
OR FILING DATE: 1997-10-28
OR APPLICATION NUMBER: 60/064103
OR FILING DATE: 1997-10-31
OR APPLICATION NUMBER: 60/069873
OR APPLICATION NUMBER: 60/078910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                OR FILING DATE: 1998-05-22

OR APPLICATION NUMBER: 60/089532

OR FILING DATE: 1998-06-17

OR APPLICATION NUMBER: 60/089538

OR FILING DATE: 1998-06-17

OR APPLICATION NUMBER: 60/089905

OR APPLICATION NUMBER: 60/089905

OR FILING DATE: 1998-06-18

OR APPLICATION NUMBER: 60/090472

OR FILING DATE: 1998-06-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OR FILING DATE: 1998-03-20
OR APPLICATION NUMBER: 60/079294
OR FILING DATE: 1998-03-25
OR APPLICATION NUMBER: 60/079656
OR FILING DATE: 1998-03-26
OR FILING DATE: 1998-03-27
OR APPLICATION NUMBER: 60/081819
OR APPLICATION NUMBER: 60/081819
OR FILING DATE: 1998-04-15
OR APPLICATION NUMBER: 60/081955
OR FILING DATE: 1998-04-15
OR APPLICATION NUMBER: 60/082804
OR APPLICATION NUMBER: 60/082804
OR APPLICATION NUMBER: 60/082804
OR APPLICATION NUMBER: 60/082804
OR APPLICATION NUMBER: 60/084441
OR FILING DATE: 1998-04-22
OR APPLICATION NUMBER: 60/084441
                                                                                                                                                                         R FILING DATE: 1998-07-07
R APPLICATION NUMBER: 60/09
R FILING DATE: 1998-08-04
R APPLICATION NUMBER: 60/09
R FILING DATE: 1998-08-04
R APPLICATION NUMBER: 60/09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RR APPLICATION NUMBER: 60/08
RF FILING DATE: 1998-05-13
RR APPLICATION NUMBER: 60/08
RR FILING DATE: 1998-05-15
RR APPLICATION NUMBER: 60/08
A FILING DATE:
A APPLICATION N
R FILING DATE:
A APPLICATION N
A FILING DATE:
A PPLICATION N
R FILING DATE:
A PPLICATION N
                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: FILING DATE: 1998-00 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 60/
FILING DATE: 1998-06-24
                                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gurney, Austin L.
Smith, Victoria
Stephan, Jean-Philippe
Watanabe, Colin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            P3530P1C96
                    NUMBER: 60:
                                                                NUMBER: 60/
: 1998-08-17
                                                                                                           NUMBER: 60/
: 1998-08-11
                                                                                                                                                                                                                                                                                                                                    1998-06-25
                                                                                                                                                                                                                                                                                                                                                                                1998-06-25
                                                                                                                                                         998-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MBER: 60/085323
998-05-13
                                             60/097986
                                                                                      60/096791
                                                                                                                                  60/096146
                                                                                                                                                                             60/095916
                                                                                                                                                                                                                         60/095318
                                                                                                                                                                                                                                                                  60/095302
                                                                                                                                                                                                                                                                                                             60/091982
                                                                                                                                                                                                                                                                                                                                                         60/090695
                                                                                                                                                                                                                                                                                                                                                                                                    60/090691
                                                                                                                                                                                                                                                                                                                                                                                                                                                60/090557
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60/086392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                60/085579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ENCODING THE SAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ŧ
                                                           PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                         PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R FILING DATE:
R APPLICATION NI
R FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION
```

TOR APPLICATION NUMBER: 60, OR FILING DATE: 1999-03-19 OR APPLICATION NUMBER: 60, OR APPLICATION NUMBER: 1999-03-19 OR APPLICATION NUMBER: N FILING DATE: OR TILING DATE: 1998-10-30
OR APPLICATION NUMBER: 60/106905
OR APPLICATION NUMBER: 60/108787
OR APPLICATION NUMBER: 60/108787
OR FILING DATE: 1998-11-17
OR FILING DATE: 1998-11-17
OR APPLICATION NUMBER: 60/108801
OR APPLICATION NUMBER: 60/108849
OR APPLICATION NUMBER: 60/112422
OR FILING DATE: 1998-11-18
OR APPLICATION NUMBER: 60/112422
OR FILING DATE: 1998-12-15
OR APPLICATION NUMBER: 60/113296
OR APPLICATION NUMBER: 60/113605
OR FILING DATE: 1998-12-23
OR APPLICATION NUMBER: 60/113621
OR APPLICATION NUMBER: 60/113621 OR APPLICATION NUMBER: 60/100390
OR FILING DATE: 1998-09-15
OR APPLICATION NUMBER: 60/100627
OR APPLICATION NUMBER: 60/100848
OR FILING DATE: 1998-09-16
OR APPLICATION NUMBER: 60/100919
OR FILING DATE: 1998-09-17
OR FILING DATE: 1998-09-17
OR FILING DATE: 1998-09-23
OR APPLICATION NUMBER: 60/101747
OR FILING DATE: 1998-09-24
OR APPLICATION NUMBER: 60/101741
OR FILING DATE: 1998-09-24
OR APPLICATION NUMBER: 60/10196
OR FILING DATE: 1998-09-24
OR APPLICATION NUMBER: 60/101916
OR FILING DATE: 1998-09-24
OR APPLICATION NUMBER: 60/10192
OR APPLICATION NUMBER: 60/10192
OR APPLICATION NUMBER: 60/10192
OR APPLICATION NUMBER: 60/106178
OR APPLICATION NUMBER: 60/10646
OR APPLICATION NUMBER: 60/10646 OR FILING DATE: 1998-09-10
PR APPLICATION NUMBER: 60/
OR FILING DATE: 1998-09-10
OR APPLICATION NUMBER: 60/
OR APPLICATION NUMBER: 60/
OR FILING DATE: 1998-09-10
OR APPLICATION NUMBER: 60/
OR APPLICATION NUMBER: 60/ R FILING DATE: 1999-01-12
R APPLICATION NUMBER: 60/11
R FILING DATE: 1999-02-10
R APPLICATION NUMBER: 60/11
R FILING DATE: 1999-03-10 FILING DATE: 1999-01-12
APPLICATION NUMBER: 60/115565 APPLICATION NUMBER: 60/ FILING DATE: 1998-09-10 FILING DATE: 1998-0 APPLICATION NUMBER: FILING DATE: 1998-0 FILING DATE: 1999-01-1 APPLICATION NUMBER: 60 NUMBER: 60/1 E: 1999-02-10 NUMBER: 60/0: 1998-09-10 NUMBER: 60/ : 1998-09-09 NUMBER: 60/115733 1999-01-12 .998-09-11 .998-09-10 1998-09-09 998-09-10 60/115558 1-12 60/125775 60/125259 60/123618 60/119549 60/100385 60/100038 60/099816 60/099812 60/099803 60/099811 60/099598 60/099596

APPLICATION NUMBER: 60/131022 FILING DATE: 1999-04-

DATE:

NUMBER:

60/127887 60/126773

1999-04-05 .999-03-

60/130232

```
RESULT 5
US-10-218-631-74
                                                                                                                                                                                                       Ş
                                                                                                                                                                                                                                                                     Ş
                                                                                                                                                                                                                                                                                                      В
                                                                                                                                                                                                                                                                                                                                  οy
                                                                                                                                                                                                                                        В
                                                             Sequence 74, Application US/10218631 Publication No. US20030045687A1 GENERAL INFORMATION:
 APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                   Matches
                                              APPLICANT: Baker, Kevin P.
                                                                                                                                                                             121
                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                        92
                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 60/166361
FILING DATE: 1999-11-16
APPLICATION NUMBER: 60/169445
FILING DATE: 1999-12-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1999-08 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 60/146222 FILING DATE: 1999-07-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1999-07-20
APPLICATION NUMBER: 60/145698
FILING DATE: 1999-07-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1999-06-23
APPLICATION NUMBER: 60/144758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 60/140723 FILING DATE: 1999-06-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/
FILING DATE: 1999-06-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 60/134287 FILING DATE: 1999-05-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/131291 FILING DATE: 1999-04-27 APPLICATION NUMBER: 60/131445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1999-04-26
APPLICATION NUMBER: 60/131270
                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/169495 FILING DATE: 1999-12-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 1999-11-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1999-08-17
APPLICATION NUMBER: 60/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/146963 FILING DATE: 1999-08-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 1999-04-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 1999-04-
                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 60/169835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/141037
                                                                                                                                                                          DGQYVPRIMEVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLLKTEL 206
                                                                                                                                                                                                                                                         ALYKSKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP
                                                                                                                                                                                                                                                                                                    ALYKSKTSNRPLMVIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLIYETTDKHLSP
                                                                                                                                                                                                                                                                                                                                                                   160;
                                                                                                                                                                                                                                                                                                                                                                                  Similarity
Desnoyers, Luc
Gerritsen, Mary
Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1999-06-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1999-08-1
                                                                                                                                                                                                                                                                                                                                                                                78.1%;
91.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             60/164418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         60/151733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60/149638
3-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        60/149320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60/140650
                                                                                                                                                                                                                                                                                                                                                              Score 830; DB 9; L. Pred. No. 4.1e-79;
                                                                                                                                                                                                                                                                                                                                                                                               Length 175;
                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                 0,
                                                                                                                                                                                                                                                                                                                                                                 .Gaps
                                                                                                                                                                                                                                                                      151
                                                                                                                                                                                                                                                                                                      60
                                                                                                                                                                                                                                                                                                                                   91
                                                                                                                                                                                                                                                                                                                                                                   0;
```

```
; TYPE: PRT
; ORGANISM: Homo
US-10-218-631-74
                                                                                                                                                                                                                                                                                                                                                                                                            Вþ
                                                                                                                                                                                                                                                                                                                                                                                                                                          QY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ş
                                                                                                                                                                                                                                                                  RESULT 6
US-10-230-338-74
                                                                                                                                                                                                                                                                                                                                        DЬ
                                                                                                                                                                                                              Sequence 74, Application US/10230338 Publication No. US20030044934A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                        APPLICANT:
APPLICANT:
APPLICANT:
                                 APPLICANT: APPLICANT:
                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR FILING DATE: 1997-10-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR FILING DATE: 1997-10-31
                                                                                                     APPLICANT:
                                                                                                                                                                                              APPLICANT: Baker,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/PRIOR FILING DATE: 1998-03-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 60/078910 PRIOR FILING DATE: 1998-03-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/10/218,631
CURRENT FILING DATE: 2002-08-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: P3530P1C14
CURRENT APPLICATION NUMBER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND TITLE OF INVENTION: ACIDS ENCODING THE SAME
                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Remaining Prior Application data removed - See File Wrapper or PALM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 1997-12-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 60/069873
                  APPLICANT
                                                                                                                                                                                                                                                                                                                                    61 ALYKSKTSNRPLMVIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLIYETTDKHLSP
                                                                                                                                                                                                                                                                                                                                                                                                                                              92
                                                                                                                                                                                                                                                                                                                                                                                                                             ALYKSKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     160;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 175
 INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID
                                                                  Godowski, Paul J.
Grimaldi, J. Christopher
Gurney, Austin L.
Smith, Victoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Watanabe, Colin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gurney, Austin
Smith, Victoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Grimaldi,
                                                                                                                                            Goddard, Audrey
                                                                                                                                                       Gerritsen, Mary
                                                                                                                                                                         Desnoyers,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Stephan, Jean-Philippe F.
                  Watanabe, Coli
Wood, William
                                                 Stephan, Jean-Philippe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sapien
                                                                                                                                                                                              Kevin P.
SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
                                 Colin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        J. Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2002-08-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      78.1%;
91.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      60/079728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 830; DB 9; Pred. No. 4.1e-79;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                     .al
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 175;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUCLEIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 60
                                                                                                                                                                                                                                                                                                                                                                                                            120
                                                                                                                                                                                                                                                                                                                                                                                                                                              151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
```

```
Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 7
US-10-078-337-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Db
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; ORGANISM: Homo Sapien
US-10-230-338-74
                                                                                                                                                                                                                                                                                                                                                                                               Sequence 8, Application US/10078337
Publication No. US20030023068A1
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 78.1%;
Best Local Similarity 91.4%;
Matches 160; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 74
LENGTH: 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Remaining Prior application data removed - See File Wrapper or PALM NUMBER OF SEQ ID NOS: 246\,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 60/079294 PRIOR FILING DATE: 1998-03-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR FILING DATE: 1998-03-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 10/119,480 PRIOR FILING DATE: 2002-04-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/10/230,338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  152 DGQYVPRIMFVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLLKTEL 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 92 ALYKSKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       32 MEKIPVSAFILLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEE 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MEKFSVSAILLLVAISGTLAKDTTVKSGSKKDPKDSRPKLPQTLSRGWGDQLIWTQTYEE 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1997-10-28
APPLICATION NUMBER: 60/0
FILING DATE: 1997-10-31
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 60/079656 FILING DATE: 1998-03-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/069873 FILING DATE: 1997-12-17
                                                                                                                                                                                                                                                                                      ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 1998-03-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: 60/078910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 60/079728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ALYKSKTSNRPLMVIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLIYETTDKHLSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DGQYVPRIVFVDPSLTVRADITGRYSNRLYAYEPSDTALLHDNMKKALKLLKTEL 175
                                                                                                                                                       COUNTRY:
                                                                                                                                                                              STATE: DC
                                                                                                                                                                                                CITY: WASHINGTON
                                                                                                                                                                                                                     ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, STREET: 1100 NEW YORK AVENUE, SUITE 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ION: ACIDS ENCODING THE SAME P3530P1C92
                                                                                                                                   20005-3934
                                                                                                                                                                                                                                                                                                                                                      DILLON, PATRICK J. EBNER, REINHARD
                                                                                                                                                       SD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2002-08-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         60/064103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60/063549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 830; DB 9; I
Pred. No. 4.1e-79;
8; Mismatches 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0,:
```

```
TOPOLOGY: linear;
MOLECULE TYPE: peptide;
SEQUENCE DESCRIPTION: SEQ ID NO:
US-10-078-337-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 8
US-10-066-500-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Вb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q
                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL
                                                                                                                                                                                                                                                                                                                                                                                                                                            Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Avi J. Ashkenazi
            TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME
                                            APPLICANT:
                                                        APPLICANT:
                                                                          APPLICANT:
                                                                                                        APPLICANT:
                                                                                                                      APPLICANT:
                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                          APPLICANT:
                                                                                                                                      APPLICANT:
                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: (202) 371-
INFORMATION FOR SEQ ID NO: 8:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2540
TELEFAX: (202) 371-2540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 08/916,576 FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AXXSNKPLMVIHHLEDCPYSQALKKVFAENXEIQELAQNFVMLNLVHETTDENLSPDGQY 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SKTSNKPLMIIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSPDGQY 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LGACLLLVALSXXLA-----XXXKGKDXRPIKGPQTLSRGWGDXIXWVQTYEEGLXK 58
                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                          54,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   122;
                                                                                                                                                                                                                                                                                                                                                                                                                                        4, Application US/10066500 
US20020177165A1
                                                                     Timothy A. Stewart
Daniel Tumas
Colin K. Watanabe
P.Mickey Williams
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 170 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRANDEDNESS: not relevant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/10/078,337 FILING DATE: 21-Feb-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION DATA:
                                                       William I. Wood
                                                                                                                                   Margaret Ann
                                                                                                                                                                 James Pan
                                                                                                                                                                                               Austin L. Gurney
Ivar J. Kljavin
Jennie P. Mather
                                                                                                                                                                                                                                                         Mary E. Gerritsen
Audrey Goddard
                                                                                                                                                                                                                                                                                    Wei-Qiang Gao
Hanspeter Gerber
                                                                                                                                                                                                                                                                                                                     Napoleone Ferrara
Sherman Fong
                                                                                                                                                                                                                                                                                                                                                                                Kevin P. Baker
David A. Botstein
                                            Zemin Zang
                                                                                                                                                                                Mary A.
                                                                                                                                                                                                                                            Paul
                                                                                                                                                                                                                                                                                                                                                                   Luc Desnoyers
                                                                                                                                                  Nicholas F. Paoni
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                     L. Eaton
                                                                                                                                                                               Napier
                                                                                                                                                                                                                                           Godowski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                57.3%;
71.3%;
                                                                                                                                      Roy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 609.5; DB 9 Pred. No. 4.1e-56;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1488.0500001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 170;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
```

2

PRIOR APPLICATION NUMBER: 60/145698 PRIOR ETLING DATE: 1999-07-26 PRIOR APPLICATION NUMBER: 60/149396 PRIOR APPLICATION NUMBER: 60/149396 PRIOR APPLICATION NUMBER: 60/169495 PRIOR APPLICATION NUMBER: 60/169495 PRIOR APPLICATION NUMBER: 08/918874 PRIOR APPLICATION NUMBER: 08/918874 PRIOR FILING DATE: 1997-08-26 PRIOR FILING DATE: 1997-08-26 PRIOR FILING DATE: 1997-09-19 PRIOR FILING DATE: 1997-09-19 PRIOR APPLICATION NUMBER: 08/960507	RIOR APPLICATION NUMBER: 60, RIOR FILING DATE: 1998-09-17 RIOR APPLICATION NUMBER: 60, RIOR FILING DATE: 1998-09-22 RIOR FILING DATE: 1998-10-28 RIOR APPLICATION NUMBER: 60, RIOR FILING DATE: 1998-11-26 RIOR APPLICATION NUMBER: 60, RIOR FILING DATE: 1999-03-22 RIOR APPLICATION NUMBER: 60, RIOR APPLICATION NUMBER: 60, RIOR FILING DATE: 1999-06-12 RIOR APPLICATION NUMBER: 60, RIOR FILING DATE: 1999-06-12 RIOR APPLICATION NUMBER: 60, RIOR FILING DATE: 1999-07-08	PRIOR APPLICATION NUMBER: 60/074092 PRIOR FILING DATE: 1998-02-09 PRIOR PILING DATE: 1998-02-09 PRIOR APPLICATION NUMBER: 60/079294 PRIOR FILING DATE: 1998-03-25 PRIOR APPLICATION NUMBER: 60/081049 PRIOR APPLICATION NUMBER: 60/09598 PRIOR FILING DATE: 1998-04-08 PRIOR APPLICATION NUMBER: 60/09598 PRIOR FILING DATE: 1998-08-10 PRIOR APPLICATION NUMBER: 60/097000 PRIOR FILING DATE: 1998-08-18 PRIOR APPLICATION NUMBER: 60/099601 PRIOR APPLICATION NUMBER: 60/099803 PRIOR APPLICATION NUMBER: 60/099803 PRIOR APPLICATION NUMBER: 60/099811 PRIOR APPLICATION NUMBER: 60/099811 PRIOR APPLICATION NUMBER: 60/099812 PRIOR APPLICATION NUMBER: 60/099812	FILING DATE: 1997-11 APPLICATION NUMBER: FILING DATE: 1997-11	R: U 2-02 1-15 60/ 8-26 8-26 8-26 8-27 9-17
PRIOR FILING DATE: 2001-05-25 PRIOR APPLICATION NUMBER: 09/870574 PRIOR APPLICATION NUMBER: 09/872035 PRIOR FILING DATE: 2001-05-30 PRIOR FILING DATE: 2001-06-01 PRIOR APPLICATION NUMBER: 09/886342 PRIOR APPLICATION NUMBER: 05/886342 PRIOR APPLICATION NUMBER: 057/US98/14552 PRIOR FILING DATE: 1998-07-14 PRIOR APPLICATION NUMBER: PCT/US98/18824 PRIOR APPLICATION NUMBER: PCT/US98/18824	ETLING DATE: 2000-09 APPLICATION NUMBER: C FILING DATE: 2000-11 APPLICATION NUMBER: C FILING DATE: 2001-01 APPLICATION NUMBER: C FILING DATE: 2001-03 APPLICATION NUMBER: C	FILING DATE: 1999-0 APPLICATION NUMBER: FILING DATE: 1999-1 APPLICATION NUMBER:	PRIOR FILING DATE: 1998-12-08  PRIOR APPLICATION NUMBER: 09/254311  PRIOR FILING DATE: 1999-03-03  PRIOR APPLICATION NUMBER: 09/254460  PRIOR FILING DATE: 1999-03-09  PRIOR FILING DATE: 1999-03-05  PRIOR APPLICATION NUMBER: 09/25465  PRIOR APPLICATION NUMBER: 09/284663  PRIOR FILING DATE: 1999-04-15  PRIOR APPLICATION NUMBER: 09/332928  PRIOR APPLICATION NUMBER: 09/332929  PRIOR APPLICATION NUMBER: 09/332929  PRIOR APPLICATION NUMBER: 09/332929  PRIOR APPLICATION NUMBER: 09/332929  PRIOR APPLICATION NUMBER: 09/333075  PRIOR FILING DATE: 1999-06-14  PRIOR APPLICATION NUMBER: 09/330075  PRIOR APPLICATION NUMBER: 09/333077	PRIOR FILING DATE: 1997-10-29  PRIOR APPLICATION NUMBER: 09/114844  PRIOR FILING DATE: 1998-07-14  PRIOR APPLICATION NUMBER: 09/136801  PRIOR FILING DATE: 1998-08-19  PRIOR APPLICATION NUMBER: 09/136804  PRIOR FILING DATE: 1998-08-19  PRIOR APPLICATION NUMBER: 09/136828  PRIOR FILING DATE: 1998-08-19  PRIOR APPLICATION NUMBER: 09/158342  PRIOR APPLICATION NUMBER: 09/180997  PRIOR APPLICATION NUMBER: 09/180997  PRIOR APPLICATION NUMBER: 09/10097  PRIOR APPLICATION NUMBER: 09/202088

4

```
Publication No. US200300; Publication No. US2003000; Publication No. US200300; Publication No. U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 9
US-10-078-337-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: PCT/US99/20111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  101 KPLMIIHHLDECPHSQALKKVFAENKEIQKLAE-QFVLLNLVYETTDKHLSPDGQYVPRI 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            41 LLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEEALYKSKTSN 100
                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
COMPUTER: IBM PC COMPATIBLE
COPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                          APPLICATION NUMBER: US/10/078,337
FILING DATE: 21-Feb-2002
CLASSIFICATION: -Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT/US99/12252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, G
STREET: 1100 NEW YORK AVENUE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: PCT/US99/21090 FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US99/20594 FILING DATE: 1999-09-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1999-09-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 1998-11-25
APPLICATION NUMBER: PCT/US99/05028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: POFILING DATE: 1998-09-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: FILING DATE: 1998-09
                              APPLICATION NUMBER: 08/916,576 FILING DATE: <Unknown> ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: PCT/US99/21547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 1999-06-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: PCT/US98/25190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: PCT/US98/25108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: PCT/US98/24855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1998-12-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1998-11-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 1998-09-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MFVDPSLTVRADIAGRYSNRLYTYEPRDLPLLIENMKKALRLIQSEL 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MFVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLLKTEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LLLVTVSSNLA--IAIK-----KEKRP--PQTLSRGWGDDITWVQTYEEGLFYAQKSK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KPLMVIHHLEDCQYSQALKKVFAQNEEIQEMAQNKFIMLNLMHETTDKNLSPDGQYVPRI 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     al Similarity
108; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Application US/10078337 No. US20030023068A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: US
ZIP: 20005-3934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE: DC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ITY: WASHINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
STEFFE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DILLON, PATRICK J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EBNER, REINHARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1998-09-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GUO-LIANG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             52.2%; Score 555; DB 9 64.7%; Pred. No. 2e-50; tive 28; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PCT/US98/19437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCT/US98/19330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCT/US98/19093
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GOLDSTEIN & FOX,
E, SUITE 600
                                                                                                                                                                                                                                                                                                                                   Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9; Length 166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4.
```

```
RESULT 10
US-10-227-884-116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 γ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  da
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-078-337-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 116, Application US/10227884 Publication No. US20030027988A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
                                                                                                                                   PRIOR
PRIOR
PRIOR
                                                                                                                                                               PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REFERENCE: P3530P1C79
                                 PRIOR PRIOR
                                                                 PRIOR PRIOR
                                                                                                  PRIOR
PRIOR
                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/10/227,884
CURRENT FILING DATE: 2002-08-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Baker,
                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (202) 371-2
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  41 LLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEEALYKSKTSN 100
                                                                 APPLICATION NUMBER: 60/079294 FILING DATE: 1998-03-25
                                                                                                  APPLICATION NUMBER: 60/078910 FILING DATE: 1998-03-20
                                                                                                                                  APPLICATION NUMBER: 60/069873 FILING DATE: 1997-12-17
                               APPLICATION NUMBER: FILING DATE: 1998-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
APPLICATION NUMBER: 60/079728 FILING DATE: 1998-03-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE DESCRIPTION: SEQ ID NO: 6:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MFVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKILKTEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LLLVTVSSNLA--IAIK-----KEKRP--PQTLSRGWGDDITWVQTYEEGLFYAQKSK 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   108;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEVDPSLTVRADIAGRYSNRLYTYEPRDLPLLIENMKKALRLIQSEL 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear
ULE TYPE: protei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER: 36,0 REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                       Stephan, Jean-Philippe F. Watanabe, Colin L. Wood, William I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gurney, Austin a
Smith, Victoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Godowski, Paul J.
Grimaldi, J. Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gerritsen, Mary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 166 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kevin
                               1998-03-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     52.2%;
                                               60/079656
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        371-2540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 555; DB 9
Pred. No. 2e-50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           36,688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1488.0500001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels; 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
```

PRIOR A ACLUSION OF THE STATE OF THE OR APPLICATION NUMBER: 60/099803
OR FILING DATE: 1998-09-10
OR APPLICATION NUMBER: 60/099811
OR FILING DATE: 1998-09-10
OR APPLICATION NUMBER: 60/099812
OR FILING DATE: 1998-09-10
OR APPLICATION NUMBER: 60/099816
OR FILING DATE: 1998-09-10
OR APPLICATION NUMBER: 60/10038
OR APPLICATION NUMBER: 60/10038
OR FILING DATE: 1998-09-11
OR APPLICATION NUMBER: 60/10038
OR FILING DATE: 1998-09-15
OR FILING DATE: 1998-09-15
OR APPLICATION NUMBER: 60/10039
OR APPLICATION NUMBER: 60/100627
OR FILING DATE: 1998-09-15
OR APPLICATION NUMBER: 60/100627
OR FILING DATE: 1998-09-16 OR APPLICATION NUMBER: 60/096791
OR FILING DATE: 1998-08-17
OR APPLICATION NUMBER: 60/097986
OR FILING DATE: 1998-08-26
OR APPLICATION NUMBER: 60/098544
OR FILING DATE: 1998-08-31
OR APPLICATION NUMBER: 60/099596
OR FILING DATE: 1998-09-09
OR APPLICATION NUMBER: 60/099598
OR FILING DATE: 1998-09-09
OR APPLICATION NUMBER: 60/099598
OR FILING DATE: 1998-09-09 DR FILING DATE: 1998-06-25
DR APPLICATION NUMBER: 60/091982
DR FILING DATE: 1998-07-07
DR APPLICATION NUMBER: 60/095302
DR FILING DATE: 1998-08-04
DR APPLICATION NUMBER: 60/095318
DR APPLICATION NUMBER: 60/095916
DR APPLICATION NUMBER: 60/095916
DR APPLICATION NUMBER: 60/095916
DR FILING DATE: 1998-08-04
DR FILING DATE: 1998-08-10 OR FILING DATE: 1998-06-17

OR APPLICATION NUMBER: 60/089905

OR FILING DATE: 1998-06-18

OR APPLICATION NUMBER: 60/090472

OR FILING DATE: 1998-06-24

OR FILING DATE: 1998-06-24

OR APPLICATION NUMBER: 60/090557

OR FILING DATE: 1998-06-24

OR APPLICATION NUMBER: 60/090691 OR APPLICATION NUMBER: 60/100848
OR FILING DATE: 1998-09-18
OR PPLICATION NUMBER: 60/100919
OR APPLICATION NUMBER: 60/101477
OR APPLICATION NUMBER: 60/101477
OR FILING DATE: 1998-09-23
OR APPLICATION NUMBER: 60/101738
OR APPLICATION NUMBER: 60/101738
OR FILING DATE: 1998-09-24
OR APPLICATION NUMBER: 60/101741
OR APPLICATION NUMBER: 60/101741 DR FILING DATE: 1998-04-22

R APPLICATION NUMBER: 60/084441

DR FILING DATE: 1998-05-06

DR APPLICATION NUMBER: 60/085323

DR FILING DATE: 1998-05-13

DR APPLICATION NUMBER: 60/085579 FILING DATE: 1998-05-15
APPLICATION NUMBER: 60/086392
FILING DATE: 1998-05-22
APPLICATION NUMBER: 60/089532
FILING DATE: 1998-06-17 APPLICATION NUMBER: 60/096146 FILING DATE: 1998-08-11 APPLICATION NUMBER: 60/ APPLICATION NUMBER: 60/089538 APPLICATION NUMBER: 1998-04-15 60/081955 60/090695 60/082804 PRIOR PRIOR

OR FILING DATE: 1998-10-28

OR APPLICATION NUMBER: 60/106248

OR FILING DATE: 1998-10-29

OR APPLICATION NUMBER: 60/106464

OR FILING DATE: 1998-10-30

OR APPLICATION NUMBER: 60/106905

OR FILING DATE: 1998-11-17

OR APPLICATION NUMBER: 60/108801

OR FILING DATE: 1998-11-17

OR APPLICATION NUMBER: 60/10849

OR FILING DATE: 1998-11-18

OR APPLICATION NUMBER: 60/113296

OR FILING DATE: 1998-12-12

OR APPLICATION NUMBER: 60/113296

OR FILING DATE: 1998-12-23

OR APPLICATION NUMBER: 60/113625

OR FILING DATE: 1998-12-23

OR APPLICATION NUMBER: 60/113621

OR FILING DATE: 1999-01-12

OR APPLICATION NUMBER: 60/11558

OR FILING DATE: 1999-01-12

OR APPLICATION NUMBER: 60/11558

OR FILING DATE: 1999-01-12

OR APPLICATION NUMBER: 60/115733

OR APPLICATION NUMBER: 60/11573

OR APPLICATION NUMBER: 60/12529

OR APPLICATION NUMBER: 60/12529

OR APPLICATION NUMBER: 60/12529

OR APPLICATION NUMBER: 60/12529

OR APPLICATION NUMBER: 60/12577

OR APPLICATION NUMBER: 60/12773

OR APPLICATION NUMBER: 60/12778

OR APPLICATION NUMBER: 60/131022

OR FILING DATE: 1999-04-26

OR APPLICATION NUMBER: 60/131291

OR APPLICATION NUMBER: 60/131291

OR APPLICATION NUMBER: 60/131291

OR APPLICATION NUMBER: 60/131445

OR APPLICATION NUMBER: 60/131445 DR APPLICATION NUMBER: 60/134287
DR FILING DATE: 1999-05-14
DR APPLICATION NUMBER: 60/140650
DR FILING DATE: 1999-06-22
DR APPLICATION NUMBER: 60/140723
DR FILING DATE: 1999-06-22
DR FILING DATE: 1999-06-22 R APPLICATION NUMBER:
R FILING DATE: 1998-09
R APPLICATION NUMBER:
R FILING DATE: 1998-10
R APPLICATION NUMBER: APPLICATION NI
FILING DATE:
APPLICATION NI
FILING DATE:
APPLICATION NI
FILING DATE:
APPLICATION NI
FILING DATE:
APPLICATION NI
FILING DATE: NUMBER: 60/1: 1999-07-26 NUMBER: 60/146963: 1999-08-03 NUMBER: 60/ : 1999-07-28 NUMBER: NUMBER: NUMBER: 60/106178 NUMBER: 60/101786 1999-07-20 1999-06-23 1998-09-24 1998-09-25 998-09-24 60/141037 60/101916 60/146222 60/145698 60/144758 60/101922

```
δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
PRIOR APPLICATION NUMBER: 60/056974
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 11
US-10-002-796-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFOR APPLICANT: APPLICANT: APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 54, Application US/10002796 Publication No. US20030032057A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                       APPLICANT: William I. Wood
APPLICANT: Zemin Zang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3130R1C1
FILE REFERENCE: P3130R1C1
FILE REFERENCE: P3130R1C1
                                                                                                    CURRENT APPLICATION NUMBER: US/10/002,796
CURRENT FILING DATE: 2001-11-15
                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR
                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                      PPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Match
Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R FILING DATE:
R FILING DATE:
R FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/166361
FILING DATE: 1999-11-16
APPLICATION NUMBER: 60/169445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/151733
FILING DATE: 1999-08-31
APPLICATION NUMBER: 60/164418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 60/169495 FILING DATE: 1999-12-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1999-11-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 60/169835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 1999-12-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KPLMIIHHLDECPHSQALKKVFAENKEIQKLAE-QFVLLNLVYETTDKHLSPDGQYVPRI 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLLKTEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KPLMVIHHLEDCQYSQALKKVFAQNEEIQEMAQNKFIMLNLMHETTDKNLSPDGQYVPRI 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       108;
                                                                                                                                                                                                          Colin K. Watanabe P.Mickey Williams
                                                                                                                                                                                                                                      Margaret Ann Roy
Timothy A. Stewart
Daniel Tumas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kevin P. Baker
David A. Botstein
                                                                                                                                                                                                                                                                                 Nicholas F. Paoni
                                                                                                                                                                                                                                                                                                               Mary A.
                                                                                                                                                                                                                                                                                                                                           Austin L. Gurney
Ivar J. Kljavin
                                                                                                                                                                                                                                                                                                                                                                                                                                 Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Luc
                                                                                                                                                                                                                                                                                                                                                                                        Audrey Goddard
                                                                                                                                                                                                                                                                                                                                                                                                         Mary
                                                                                                                                                                                                                                                                                                                                                                                                                     Hanspeter Gerber
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sherman Fong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Napoleone Ferrara
                                                                                                                                                                                                                                                                                                                                Jennie P. Mather
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      J. Ashkenazi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Desnoyers
                                                                                                                                                                                                                                                                                                  Pan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eaton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1999-08-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1999-08-17
                                                                                                                                                                                                                                                                                                             Napier
                                                                                                                                                                                                                                                                                                                                                                          Godowski
                                                                                                                                                                                                                                                                                                                                                                                                     Gerritsen
                                                                                                                                                                                                                                                                                                                                                                                                                                    Gao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    52.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              60/149638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 555; DB 9
Pred. No. 2e-50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            166
                                                                                                                                                             AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12;
                                                                                                                                                             NUCLEIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4.
                                     PRIOR PRIOR
                                                                                                                                                                                                                       PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                           PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                         PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR
PRIOR
                                                                                                                                                            PRIOR
                                                                                                                                                                                                                                                                  PRIOR
                                                                                                                                                                                                                                                                                               PRIOR
                                                                                                                                                                                                                                                                                                               PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR
                                                                                                                                                                                                                                                    PRIOR
                                                                                                                                                                                                                                                                                 PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OR APPLICATION NUMBER: 60/074092
OR FILING DATE: 1998-02-09
OR APPLICATION NUMBER: 60/079294
OR FILING DATE: 1998-03-25
OR APPLICATION NUMBER: 60/081049
OR FILING DATE: 1998-04-08
OR FILING DATE: 1998-04-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R APPLICATION NUMBER: 60/09
R FILING DATE: 1998-09-10
R APPLICATION NUMBER: 60/09
R FILING DATE: 1998-09-10
R APPLICATION NUMBER: 60/09
R APPLICATION NUMBER: 60/09
                                                                                                                                      FILING DATE: 1997 - US
APPLICATION NUMBER: 06
APPLICATION NUMBER: 06
                 FILING DATE: 1998-08-1
APPLICATION NUMBER: 09
APPLICATION NUMBER: 09
                                                                        FILING DATE: 1998-08-18
APPLICATION NUMBER: 60/
FILING DATE: 1998-09-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 60/095998 FILING DATE: 1998-08-10 APPLICATION NUMBER: 60/097000
                                                                                                                                                                        APPLICATION NUMBER: 08/9: FILING DATE: 1997 -09-19
                                                                                                                                                                                                    APPLICATION NUMBER: FILING DATE: 1997-0
                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: FILING DATE: 1999-07
                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1998-10-28
APPLICATION UMBER: 60/109304
FILING DATE: 1998-11-20
APPLICATION NUMBER: 60/125778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 60/100858 FILING DATE: 1998-09-17 APPLICATION NUMBER: 60/101922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 60/
FILING DATE: 1997-12-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/066840 FILING DATE: 1997-11-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 60/066364 FILING DATE: 1997-11-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1997-10 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/063329 FILING DATE: 1997-10-27
                                                                    APPLICATION
                                                                                                                             FILING DATE: APPLICATION N
                                                                                                                                                                                                                                                 APPLICATION NUMBER: 60/169495
                                                                                                                                                                                                                                                                APPLICATION NUMBER: FILING DATE: 1999-08
                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/145070 FILING DATE: 1999-07-20
                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1999-06-15
                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 60/
                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 1998-09-24
APPLICATION NUMBER: 60/106032
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1997-10-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 60/
FILING DATE: 1997-10-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60 FILING DATE: 1997-09-
                                                                                                                                                                                                                                     FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 1998-02-09
                                                   NUMBER: 09/136804
: 1998-08-19
                                                                                                                              NUMBER: 09/114844
                                                                                                                                                                                                      1997-08-26
                                                                                                                                                                                                                                     1999-12-07
                                                                                                                                                                                                                                                                  NUMBER: 60/149396
1999-08-17
                                                                                                                                                                                                                                                                                              1999-07-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             997-10-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             997-10-
                                     09/136828
                                                                                                                                                                                                                       08/918874
                                                                                               09/136801
                                                                                                                                                          08/960507
                                                                                                                                                                                                                                                                                                                                                                     60/139695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 60/099811
                                                                                                                                                                                      08/933821
                                                                                                                                                                                                                                                                                                            60/145698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  60/099812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             E08660/09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60/099601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60/074086
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 60/069694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         60/063733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  60/063082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          60/062285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         60/059588
```

FILING

1998-09-21

```
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 2000-04-13
APPLICATION NUMBER: 09/664610
FILING DATE: 2000-09-18
APPLICATION NUMBER: 09/665350
                                                                                                                                                                                                                                                                                FILING DATE: 2001-05-30
APPLICATION NUMBER: 09/872035
FILING DATE: 2001-06-01
APPLICATION NUMBER: 09/886342
                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 2001-03-09
APPLICATION NUMBER: 09/808689
FILING DATE: 2001-03-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 2000-11-08
APPLICATION NUMBER: 09/767609
FILING DATE: 2001-01-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 09/709238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 09/522342 FILING DATE: 2000-03-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1999-11-10
APPLICATION NUMBER: 09/423844
FILING DATE: 1999-11-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 09/403297
FILING DATE: 1999-10-18
APPLICATION NUMBER: 09/423741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 09/403296
FILING DATE: 1999-10-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 09/380138
FILING DATE: 1999-08-25
APPLICATION NUMBER: 09/380139
FILING DATE: 1999-08-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 1999-06-14
APPLICATION NUMBER: 09/380137
FILING DATE: 1999-08-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1999-06-14
APPLICATION NUMBER: 09/333075
FILING DATE: 1999-06-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 09/332928
FILING DATE: 1999-06-14
APPLICATION NUMBER: 09/332929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 1999-03-05
APPLICATION NUMBER: 09/284663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 09/254460 FILING DATE: 1999-03-09 APPLICATION NUMBER: 09/254465
                                                       APPLICATION NUMBER: PCT/US98/19330
FILING DATE: 1998-09-16
APPLICATION NUMBER: PCT/US98/19437
FILING DATE: 1998-09-17
                                                                                                                                         FILING DATE: 1998-09-10
APPLICATION NUMBER: PCT/US98/19093
FILING DATE: 1998-09-14
                                                                                                                                                                                                                        APPLICATION NUMBER: PCT/US98/14552 FILING DATE: 1998-07-14
                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 2001-05-25
APPLICATION NUMBER: 09/870574
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 1999-04-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1999-03-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 09/
FILING DATE: 1998-12-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER:
FILING DATE: 1998-11-20
APPLICATION NUMBER: PCT/US98/25108
                                      APPLICATION NUMBER: PCT/US98/24855
                                                                                                                                                                                                     FILING DATE: 1998-07-14
APPLICATION NUMBER: PCT/US98/18824
                                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 09/866028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 09/802706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 09/548815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 09/254311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DATE: 1998-09-
                                                                                                                                                                                                                                                                      2001-06-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09/333077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   09/202088
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09/180997
```

```
Вþ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 12
US-10-066-273-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 54, Ap
Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
                                                                                                                                                                                           APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                             APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR PRIOR
CURRENT APPLICATION NUMBER: US/10/066,273
CURRENT FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 10/002,796
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
                                                                                          TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REFERENCE: P3130R1C2
                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR
                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                           APPLICANT
                                                                                                                                                                                                                                                                                                                                                                            APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               41 LLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEEALYKSKTSN 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OR FILING DATE: 1999-09-01

PR APPLICATION NUMBER: PCT/US99/20594

DR FILING DATE: 1999-09-08

OR APPLICATION NUMBER: PCT/US99/21090

R FILING DATE: 1999-09-15

DR APPLICATION NUMBER: PCT/US99/21547

DR APPLICATION NUMBER: PCT/US99/21547

DR FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: PCT FILING DATE: 1999-06-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: PCT/US98/25190 FILING DATE: 1998-11-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: PCT/US99/28301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: PCT/US99/20111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1999-03-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: PCT/US99/05028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KPLMIIHHLDECPHSQALKKVFAENKEIQKLAE-QFVLLNLVYETTDKHLSPDGQYVPRI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KPLMVIHHLEDCQYSQALKKVFAQNEEIQEMAQNKFIMLNLMHETTDKNLSPDGQYVPRI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LLLVTVSSNLA--IAIK-----KEKRP--PQTLSRGWGDDITWVQTYEEGLFYAQKSK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                108;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                            Paul
                                                                                                                                                             P.Mickey Williams
William I. Wood
                                                                                                                                                                                           Colin K. Watanabe
                                                                                                                                                                                                                          Nicholas F. Paoni
Margaret Ann Roy
Timothy A. Stewart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Application US/10066273
                                                                                                                                                Zemin Zang
                                                                                                                                                                                                            Daniel Tumas
                                                                                                                                                                                                                                                                                                            Jennie P. Mather
                                                                                                                                                                                                                                                                                                                         Austin L. Gurney
Ivar J. Kljavin
                                                                                                                                                                                                                                                                                                                                                                                         Wei-Qiang Gao .
Hanspeter Gerber
Mary E. Gerritsen
                                                                                                                                                                                                                                                                                                                                                                                                                                           Sherman Fong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kevin
                                                                                                                                                                                                                                                                                         Mary A. Napier
                                                                                                                                                                                                                                                                                                                                                                          Audrey Goddard
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Napoleone Ferrara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Luc Desnoyers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                          Pan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        P. Baker
A. Botstein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ashkenazi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eaton
                                                                                                                                                                                                                                                                                                                                                           Godowski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               52.2%; Score 555; DB 9 64.7%; Pred. No. 2e-50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PCT/US99/12252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 2e-5
8; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                59
```

4.

PRIOR
PRIOR DR APPLICATION NUMBER: 09/522342

OR FILING DATE: 2000-03-09

OR FILING DATE: 2000-04-13

OR APPLICATION NUMBER: 09/564610

OR FILING DATE: 2000-09-18

OR APPLICATION NUMBER: 09/665350

OR FILING DATE: 2000-09-18

OR APPLICATION NUMBER: 09/709238

OR APPLICATION NUMBER: 09/709238

OR APPLICATION NUMBER: 09/767609

OR APPLICATION NUMBER: 09/767609

OR APPLICATION NUMBER: 09/767609

OR APPLICATION NUMBER: 09/767609

OR APPLICATION NUMBER: 09/802706

OR APPLICATION NUMBER: 09/808689

OR APPLICATION NUMBER: 09/808689 OR APPLICATION NUMBER: 09/380138
OR FILING DATE: 1999-08-25
OR APPLICATION NUMBER: 09/380139
OR FILING DATE: 1999-08-25
OR APPLICATION NUMBER: 09/403296
OR APPLICATION NUMBER: 09/403297
OR APPLICATION NUMBER: 09/403297
OR FILING DATE: 1999-10-18
OR APPLICATION NUMBER: 09/403297
OR APPLICATION NUMBER: 09/403297
OR APPLICATION NUMBER: 09/403844
OR APPLICATION NUMBER: 09/423844
OR FILING DATE: 1999-11-12
OR FILING DATE: 1999-11-12
OR APPLICATION NUMBER: 09/423844
OR FILING DATE: 1999-11-12 R FILING DATE: 2001-03-14
R APPLICATION NUMBER: 09,
R ETLING DATE: 2001-05-26
R EPLING DATE: 2001-05-26
R APPLICATION NUMBER: 09,
R FILING DATE: 2001-06-01
R APPLICATION NUMBER: 09,
R FILING DATE: 2001-06-12
R APPLICATION NUMBER: 09,
R FILING DATE: 1998-07-14
R FILING DATE: 1998-09-14
R APPLICATION NUMBER: PCT
R FILING DATE: 1998-09-16
R APPLICATION NUMBER: PCT
R FILING DATE: 1998-09-16
R APPLICATION NUMBER: PCT
R FILING DATE: 1998-09-17
R FILING DATE: 1998-09-17
R FILING DATE: 1998-09-17
R FILING DATE: 1998-09-17
R APPLICATION NUMBER: PCT
R APPLICATION NUMBER: PCT R APPLICATION NUMBER: 09/21
R FILING DATE: 1999-04-15
RR APPLICATION NUMBER: 09/31
RR FILING DATE: 1999-06-14
R APPLICATION NUMBER: 09/31
RR FILING DATE: 1999-06-14
RR FILING DATE: 1999-06-14
RR FILING DATE: 1999-06-14 R FILING DATE: 1998-09
R APPLICATION NUMBER:
(R FILING DATE: 1998-12
R APPLICATION NUMBER: (1997-12)
R FILING DATE: 1999-03
R FILING DATE: 1999-03
R FILING DATE: 1999-03
R FILING DATE: 1999-03
R FILING DATE: 1999-03 APPLICATION NUMBER: 09/ FILING DATE: 1999-06-14 APPLICATION NUMBER: 09/ FILING DATE: 1999-08-25 APPLICATION NUMBER: 0 FILING DATE: 1998-09-APPLICATION NUMBER: APPLICATION NUMBER: 09 DATE: 1998-09-10 NUMBER: 09/8 NUMBER: PCT/US98/19330 : 1998-09-16 NUMBER: PCT : 1998-09-14 NUMBER: PCT : 1998-07-14 NUMBER: 09/: : 1999-03-05 1998-12-1999-03-09 1998-09-10 NUMBER: 09/870574 1999-03-09/866028 5-25 PCT/US98/19437 }-17 09/886342 09/872035 9 PCT/US98/19093 PCT/US98/18824 PCT/US98/14552 09/380137 09/333077 09/333075 09/332929 09/332928 09/284663 09/254465 09/254460 09/254311 09/180997 09/158342 09/136828 . 08 /202088

PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR

NUMBER: 08/918874 : 1997-08-26

60/169495

R: 08/933821 -09-19

08/960507

NUMBER: 09/136804 : 1998-08-19

09/136801 09/114844 PRIOR PRIOR

PRILING DATE: 1998-09-10
PRILING DATE: 1998-09-10
PREPLICATION NUMBER: 60/09
PREFILING DATE: 1998-09-10
PREPLICATION NUMBER: 60/10
PREPLICATION NUMBER: 60/12
PREPLICATION NUMBER: 60/12
PREPLICATION NUMBER: 60/14
PREPLICATION NUMBER: 60/16
PREPLICATION NUMBER: 60/1

60/145698 60/149396 B-17

60/145070

60/139695

60/125778 60/109304

PRIOR PRIOR

NUMBER: 60/100858 1998-09-17

60/099812

60/099811 60/099803

60/101922

60/106032

PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR

60/099601 60/097000 60/095998 PRIOR PRIOR

OR APPLICATION NUMBER: 60/06
BR FILING DATE: 1997-11-21
OR APPLICATION NUMBER: 60/06
BR FILING DATE: 1997-12-26
BR APPLICATION NUMBER: 60/07
BR APPLICATION NUMBER: 60/07
OR FILING DATE: 1998-02-09
BR APPLICATION NUMBER: 60/07
OR FILING DATE: 1998-02-09
DR APPLICATION NUMBER: 60/07
OR FILING DATE: 1998-03-25
OR APPLICATION NUMBER: 60/08
BR APPLICATION NUMBER: 60/09
OR APPLICATION NUMBER: 60/09
OR APPLICATION NUMBER: 60/09
OR APPLICATION NUMBER: 60/09
OR FILING DATE: 1998-08-01
OR APPLICATION NUMBER: 60/09
OR FILING DATE: 1998-08-10
OR APPLICATION NUMBER: 60/09
OR APPLICATION NUMBER: 60/09
OR FILING DATE: 1998-08-10

60/081049

60/079294

60/074092 60/074086 PRIOR PRIOR

PRIOR PRIOR

NUMBER: 6: 1997-10-NUMBER:

60/062285 0-17 60/059588 9-17

FILING DATE:
APPLICATION N
FILING DATE:
APPLICATION N
FILING DATE:

NUMBER: 60: 1997-09-1

60/059263

1997-09-17

NUMBER:

1997-09-

R APPLICATION N
R FILING DATE:
R APPLICATION N
R FILING DATE:
R APPLICATION N
R APPLICATION N
R APPLICATION N
R FILING DATE:
R APPLICATION N
R APPLICATION N

NUMBER:

1997-10-31 1997-10-24

NUMBER: 60/ : 1997-10-27

NUMBER:

1997-10-

60/066364 60/063733 60/063329 60/063082 60/062816

60/069694

60/066840

60/059263

60/062285 60/059588

```
APPLICANT: Colin K. Waldiums
APPLICANT: P.Mickey Williams
APPLICANT: Williams
APPLICANT: William I. Wood
APPLICANT: William I. Wood
APPLICANT: Zemin Zang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P313OR1C9
CURRENT APPLICATION NUMBER: US/10/066,494
CURRENT FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 10/002,796
PRIOR APPLICATION NUMBER: 60/056974
PRIOR APPLICATION NUMBER: 60/056974
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 13
US-10-066-494-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 54, Application US/10066494 Publication No. US20030032063A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 108; Conserv
                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     160 MFVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLLKTEL 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11 LLLVTVSSNLA--IAIK-----KEKRP--PQTLSRGWGDDITWVQTYEEGLFYAQKSK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          41 LLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEEALYKSKTSN 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US99/21090 FILING DATE: 1999-09-15 APPLICATION NUMBER: PCT/US99/21547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: PCT/US99/12252 FILING DATE: 1999-06-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 1998-12-01
APPLICATION NUMBER: PCT/US98/25190
FILING DATE: 1998-11-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: PCT FILING DATE: 1999-09-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: PCT/US99/20111 FILING DATE: 1999-09-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT/US99/05028 FILING DATE: 1999-03-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1998-11-20
APPLICATION NUMBER: PCT/US98/25108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MFVDPSLTVRADIAGRYSNRLYTYEPRDLPLLIENMKKALRLIQSEL 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION:
                                                                                                                                                                                                                                                                     Nicholas F. Paoni
Margaret Ann Roy
Timothy_A. Stewart
                                                                                                                                                                                                                                                        Daniel Tumas
                                                                                                                                                                                                                                                                                                                            James Pan
                                                                                                                                                                                                                                                                                                                                           Mary A.
                                                                                                                                                                                                                                                                                                                                                          Jennie P. Mather
                                                                                                                                                                                                                                                                                                                                                                         Austin L. Gurney
Ivar J. Kljavin
                                                                                                                                                                                                                                                                                                                                                                                                             Paul
                                                                                                                                                                                                                                                                                                                                                                                                                           Audrey Goddard
                                                                                                                                                                                                                                                                                                                                                                                                                                              Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Wei-Qiang Gao
Hanspeter Gerber
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sherman Fong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Napoleone Ferrara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Luc Desnoyers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kevin P. Baker
David A. Botstein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kevin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ashkenazi
                                                                                                                                                                                                                                                                                                                                      Napier
                                                                                                                                                                                                                                                                                                                                                                                                           Godowski
                                                                                                                                                                                                                                                                                                                                                                                                                                              Gerritsen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Baker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       52.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PCT/US99/20594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 555; DB 9
Pred. No. 2e-50;
8; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 9; Length 166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                       AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: FILING DATE: 1998-0 APPLICATION NUMBER:
                                                                                  APPLICATION NUMBER: 09/
FILING DATE: 1998-07-14
                                                                                                                 FILING DATE: 1997 -09-19
APPLICATION NUMBER: 08/960507
FILING DATE: 1997-10-29
                                                                                                                                                  APPLICATION NUMBER: U8/9
FTTING DATE: 1997 -09-19
                                                                                                                                                                                    APPLICATION NUMBER: 08/9
FILING DATE: 1997-08-26
                                                                                                                                                                                                                     APPLICATION NUMBER: FILING DATE: 1999-1:
                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/1 FILING DATE: 1999-07-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 1998-0 APPLICATION NUMBER: FILING DATE: 1998-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/
FILING DATE: 1998-08-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 1998-0: APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 1998-02-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: FILING DATE: 1998-0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/069694 FILING DATE: 1997-12-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 60/066840 FILING DATE: 1997-11-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/
FILING DATE: 1997-11-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 1997-10-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 60/062816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 1997-10-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60 FILING DATE: 1997-09-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/059115 FILING DATE: 1997-09-17
                                                   APPLICATION NUMBER: 09/136801 FILING DATE: 1998-08-19
                                                                                                                                                                                                                                                        FILING DATE: 1999-08-17
                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/149396
                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
                                                                                                                                                                                                                     1999-12-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1998-09-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1998-03-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1997-10-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1997-10-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1997-09-17
                                                                                                                                                                                                                                                                                                                                                                                                                           1998-11-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1998-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1998-04-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1997-10-31
                                                                                                                                                                                                                                                                                                                                                          1999-06-15
                                                                                                                                                                                                                                                                                                                                                                                           1999-03-
                                                                                                                                                                                                                                                                                                                                                                                                                                                            1998-10-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1998-09-1
                                                                                                                                                                                                                                                                                                                          1999-07-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1998-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1998-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1998-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1998-02-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .998-09-09
```

60/095998 60/081049

60/099811

60/099803 60/099601 60/097000 60/074092 60/074086

60/079294

60/066364

60/063733 60/063329

08/918874

60/169495

08/933821

09/114844

60/145698

60/145070

60/125778

60/109304

60/106032 60/101922 60/100858 60/099812

60/139695

```
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                        OR FILING DATE: 2000-04-13
REAPPLICATION NUMBER: 09/61
REFILING DATE: 2000-09-18
REFILING DATE: 2000-09-18
                                                                                                                                                         FILING DATE: 2001-05-30
APPLICATION NUMBER: 09/872035
FILING DATE: 2001-06-01
APPLICATION NUMBER: 09/886342
FILING DATE: 2001-06-19
                  APPLICATION NUMBER: PCT, FILING DATE: 1998-09-14 APPLICATION NUMBER: PCT, FILING DATE: 1998-09-16
                                                                                                                                                                                                                                                                                FILING DATE: 2001-03-09
APPLICATION NUMBER: 09/808689
FILING DATE: 2001-03-14
APPLICATION NUMBER: 09/866028
                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 09/709238
FILING DATE: 2000-11-08
APPLICATION NUMBER: 09/767609
FILING DATE: 2001-01-2
APPLICATION NUMBER: 09/802706
ETILING CAME: 2001-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 1999-0 APPLICATION NUMBER: FILING DATE: 1999-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 09/202088
FILING DATE: 1998-12-08
APPLICATION NUMBER: 09/254311
                                                                                                                                                                                                                                                 FILING DATE: 2001-05-25
APPLICATION NUMBER: 09/870574
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: FILING DATE: 2000-03 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 09/423741
FILING DATE: 1999-11-10
APPLICATION NUMBER: 09/423844
FILING DATE: 1999-11-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1999-08-25
APPLICATION NUMBER: 09/403296
FILING DATE: 1999-10-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 1999-08 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 1999-06-14
APPLICATION NUMBER: 09/380137
FILING DATE: 1999-08-25
APPLICATION NUMBER: 09/380138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: FILING DATE: 1999-0 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 09/332928
FILING DATE: 1999-06-14
APPLICATION NUMBER: 09/332929
FILING DATE: 1999-06-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 1999-03-03
APPLICATION NUMBER: 09/254460
                                                                                                      APPLICATION NUMBER: PCT/US98/18824
                                                                                                                          APPLICATION NUMBER: FILING DATE: 1998-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 09/403297 FILING DATE: 1999-10-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1999-03-09
APPLICATION NUMBER: 09/254465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 09/180997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 09/158342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER: 09/522342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER:
                                                                                                                       NUMBER: PCT/US98/14552
1998-07-14
                                                                                                                                                                                                                                                                                                                                               2001-01-22
NIIMBER: 09/802706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER: 09/548815
2000-04-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1998-08-19
NUMBER: 09/136828
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1998-09-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1998-09-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000-03-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1999-08-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1999-03-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1998-08-
                                                                                        998-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                999-06-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .999-04-
PCT/US98/19437
                                    PCT/US98/19330
                                                                      PCT/US98/19093
                                                                                                                                                                                                                                                                                                                                                                                                                                                           09/665350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09/664610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     09/380139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09/380138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09/333077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09/333075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   09/284663
```

```
US-10-230-163-116

; Sequence 116, Application US/10230163

; Sequence 116, Application US/10230163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          QΥ
             CURRENT APPLICATION NUMBER: US/10/230,163
CURRENT FILING DATE: 2002-08-28
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/06287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/064103
PRIOR APPLICATION NUMBER: 60/0649873
PRIOR APPLICATION NUMBER: 60/069873
PRIOR APPLICATION NUMBER: 60/069873
PRIOR APPLICATION NUMBER: 60/0798910
PRIOR APPLICATION NUMBER: 60/079294
PRIOR APPLICATION NUMBER: 60/079294
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR FILING DATE: 1998-03-25
PRIOR FILING DATE: 1998-03-25
PRIOR FILING DATE: 1998-03-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: WOOD, WILLIAM I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES TITLE OF INVENTION: ACLUS ENCODING THE SAME FILE REFERENCE: P3530P1C96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Baker,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: PCT/US99/21090 FILING DATE: 1999-09-15 APPLICATION NUMBER: PCT/US99/21547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT FILING DATE: 1999-09-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: PCT/US98/24855
FILING DATE: 1998:11-20
APPLICATION NUMBER: PCT/US98/25108
FILING DATE: 1998-12-01
APPLICATION NUMBER: PCT/US98/25190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: PCT FILING DATE: 1999-06-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 1998-11-25
APPLICATION NUMBER: PCT/US99/05028
FILING DATE: 1999-03-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 1999-09-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: PCT/US99/20111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MFVDPSLTVRADITGRYSNRLYAYEPADTALLLDNMKKALKLLKTEL 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEVDPSLTVRADIAGRYSNRLYTYEPRDLPLLIENMKKALRLIQSEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KPLMIIHHLDECPHSQALKKVFAENKEIQKLAE-QFVLLNLVYETTDKHLSPDGQYVPRI 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KPLMVIHHLEDCQYSQALKKVFAQNEEIQEMAQNKFIMLNLMHETTDKNLSPDGQYVPRI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 108;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity 64.7
08; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gurney, Austin
Smith, Victoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Godowski, Paul J.
Grimaldi, J. Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                      Stephan, Jean-Philippe F. Watanabe, Colin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Godowski,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gerritsen, Mary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kevin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 52.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCT/US99/20594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PCT/US99/12252
60/079656
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 555; DB 9
Pred. No. 2e-50;
8; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      166
                                                                                                                                                                                                                                                                                                                                                                                                    AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12;
                                                                                                                                                                                                                                                                                                                                                                                                        NUCLEIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
```

DR APPLICATION NUMBER: 60/090472
DR FILING DATE: 1998-06-24
DR APPLICATION NUMBER: 60/090557
DR FILING DATE: 1998-06-24
DR APPLICATION NUMBER: 60/090691
DR FILING DATE: 1998-06-25
DR APPLICATION NUMBER: 60/090695
DR FILING DATE: 1998-06-25
DR APPLICATION NUMBER: 60/091982
DR APPLICATION NUMBER: 60/091982
DR APPLICATION NUMBER: 60/095302
DR FILING DATE: 1998-08-04
DR APPLICATION NUMBER: 60/095318
DR APPLICATION NUMBER: 60/095318
DR FILING DATE: 1998-08-04
DR APPLICATION NUMBER: 60/095916
DR APPLICATION NUMBER: 60/095916 DR APPLICATION NUMBER: 60/096791
DR FILING DATE: 1998-08-17
DR APPLICATION NUMBER: 60/097986
DR FILING DATE: 1998-08-26
DR APPLICATION NUMBER: 60/098544
DR FILING DATE: 1998-09-31
DR APPLICATION NUMBER: 60/099596
DR FILING DATE: 1998-09-09
DR APPLICATION NUMBER: 60/099598
DR FILING DATE: 1998-09-09
DR APPLICATION NUMBER: 60/099803
DR FILING DATE: 1998-09-10
DR APPLICATION NUMBER: 60/099811
DR FILING DATE: 1998-09-10
DR APPLICATION NUMBER: 60/099812
DR APPLICATION NUMBER: 60/099812
DR APPLICATION NUMBER: 60/099816
DR FILING DATE: 1998-09-10
DR APPLICATION NUMBER: 60/099816
DR FILING DATE: 1998-09-10
DR APPLICATION NUMBER: 60/099816
DR FILING DATE: 1998-09-10
DR APPLICATION NUMBER: 60/10038
DR FILING DATE: 1998-09-11
DR APPLICATION NUMBER: 60/10038
DR FILING DATE: 1998-09-15
DR APPLICATION NUMBER: 60/10038
DR FILING DATE: 1998-09-15
DR APPLICATION NUMBER: 60/10038
DR FILING DATE: 1998-09-15
DR APPLICATION NUMBER: 60/10038 OR APPLICATION NUMBER: 60/089532

OR FILLING DATE: 1998-06-17

OR APPLICATION NUMBER: 60/089538

OR FILLING DATE: 1998-06-17

OR APPLICATION NUMBER: 60/089905

OR FILLING DATE: 1998-06-18 R APPLICATION NUMBER: 60/08
R FILING DATE: 1998-05-13
R APPLICATION NUMBER: 60/08
R FILING DATE: 1998-05-15
R FILING DATE: 1998-05-22 R FILING DATE: 1998-09R APPLICATION NUMBER: (
R FILING DATE: 1998-09R APPLICATION NUMBER: (
R FILING DATE: 1998-09R FILING DATE: 1998-09-FILING DATE: 1990-07 200/084441
APPLICATION NUMBER: 60/084441
FILING DATE: 1998-05-06
FILING DATE: 60/085323 APPLICATION NUMBER: 60/081955 FILING DATE: 1998-04-15 APPLICATION NUMBER: 60/082804 FILING DATE: 1998-04-22 FILING DATE: 1998-09-15
APPLICATION NUMBER: 60/100390
FILING DATE: 1998-09-15
APPLICATION NUMBER: 60/100627 APPLICATION NUMBER: 60/ FILING DATE: 1998-03-27 APPLICATION NUMBER: FILING DATE: 1998-04-J NUMBER: 60/100627 1998-09-16 NUMBER: 60/100848 1998-03-26 1998-09-17 1998-09-18 60/085579 60/079728 60/081819 60/101477 60/100919 /086392

PRIOR DR APPLICATION NUMBER: 60/108787
OR FILING DATE: 1998-11-17
OR APPLICATION NUMBER: 60/108801
OR FILING DATE: 1998-11-18
OR APPLICATION NUMBER: 60/108801
OR FILING DATE: 1998-11-18
OR APPLICATION NUMBER: 60/113296
OR FILING DATE: 1998-12-22
OR FILING DATE: 1998-12-23
OR APPLICATION NUMBER: 60/113605
OR FILING DATE: 1998-12-23
OR APPLICATION NUMBER: 60/115565
OR FILING DATE: 1999-01-12
OR APPLICATION NUMBER: 60/115565
OR FILING DATE: 1999-01-12
OR APPLICATION NUMBER: 60/11573
OR APPLICATION NUMBER: 60/11573
OR FILING DATE: 1999-01-12
OR APPLICATION NUMBER: 60/12573
OR FILING DATE: 1999-02-10
OR APPLICATION NUMBER: 60/12575
OR FILING DATE: 1999-03-23
OR APPLICATION NUMBER: 60/12575
OR FILING DATE: 1999-03-23
OR APPLICATION NUMBER: 60/125775
OR APPLICATION NUMBER: 60/12773
OR APPLICATION NUMBER: 60/12773
OR APPLICATION NUMBER: 60/12773
OR FILING DATE: 1999-04-05
OR APPLICATION NUMBER: 60/13023
OR FILING DATE: 1999-04-26
OR APPLICATION NUMBER: 60/13127
OR APPLICATION NUMBER: 60/13129
OR APPLICATION NUMBER: 60/13129
OR APPLICATION NUMBER: 60/13129
OR APPLICATION NUMBER: 60/13145
OR FILING DATE: 1999-04-27
OR APPLICATION NUMBER: 60/13145
OR APPLICATION NUMBER: 60/13145 PR FILING DATE: 1999-06-22
READPLICATION NUMBER: 60/14
RETLING DATE: 1999-06-23
READPLICATION NUMBER: 60/14
REFILING DATE: 1999-07-26
READPLICATION NUMBER: 60/14
REFILING DATE: 1999-07-26
READPLICATION NUMBER: 60/14 R APPLICATION NUMBER: 6
R FILING DATE: 1998-09R APPLICATION NUMBER: 6
R FILING DATE: 1998-09R APPLICATION NUMBER: 6
R FILING DATE: 1998-09R APPLICATION NUMBER: 6
R APPLICATION NUMBER: 6 APPLICATION NUMBER: 60/ FILING DATE: 1998-10-30 APPLICATION NUMBER: 60/ FILING DATE: 1998-11-03 FILING DATE: 1999-00 APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: 60/ FILING DATE: 1998-09-24 DATE: 1998-09-24 1998-10-1999-06-22 -60-8661 998-10-.998-09-998-09-60/101738 60/141037 60/140723 60/140650 60/106905 60/106464 60/106248 60/106178 60/101922 916101/09 60/101786 60/101741 60/145698 60/144758 29

```
οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 15
US-10-066-269-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Ma
Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 54, Application US/10066269 Publication No. US20030040014A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT AVI J
APPLICANT KevI
APPLICANT Davi
APPLICANT Luc
APPLICANT Napo
APPLICANT Napo
APPLICANT Shez
APPLICANT Hans
APPLICANT Hans
APPLICANT Mary
                                                                                                                                                                                                                    APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                             APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REFERNCE: P3130R1C4 CURRENT APPLICATION NUMBER: US/10/066,269 CURRENT FILING DATE: 2002-02-01 PRIOR APPLICATION NUMBER: 10/002,796 PRIOR APPLICATION UMBER: 10/002,796 PRIOR FILING DATE: 2001-11-15
                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                           APPLICANT:
                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    41 LLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWGDQLIWTQTYEEALYKSKTSN 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R FILING DATE: 1999-07
R APPLICATION NUMBER:
R FILING DATE: 1999-08
R APPLICATION NUMBER:
R FILING DATE: 1999-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1999-08-31
APPLICATION NUMBER: 60/164418
FILING DATE: 1999-11-09
APPLICATION NUMBER: 60/166361
FILING DATE: 1999-11-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/
FILING DATE: 1999-12-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: FILING DATE: 1999-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 60/169495
FILING DATE: 1999-12-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KPLMITHHLDECPHSQALKKVFAENKETQKLAE-QFVLLNLVYETTDKHLSPDGQYVPRI 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KPLMVIHHLEDCQYSQALKKVFAQNEEIQEMAQNKFIMLNLMHETTDKNLSPDGQYVPRI 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LLVTVSSNLA-IAIK------KEKRP--PQTLSRGWGDDITWVQTYEEGLFYAQKSK 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               108;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                       Daniel Tumas
Colin K. Watanabe
P.Mickey Williams
William I. Wood
                                                                                                                                                                                                                                                                                                                                       Paul J. Gourney
Austin L. Gurney
Austin J. Kljavin
Mather
                                                                                                                                                                                                                                                                                                                                                                                                                                   Sherman Fong
Wei-Qiang Gao
Hanspeter Gerber
Mary E. Gerritsen
                                                                                                                                                                                                                                       Margaret Ann Roy
Timothy A. Stewart
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Luc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kevin P. Baker
David A. Botstein
                                                                                                                                                                                                                                                                             Nicholas F. Paoni
                                                                                                                                      Zemin Zang
                                                                                                                                                                                                                                                                                                  James Pan
                                                                                                                                                                                                                                                                                                                    Mary A.
                                                                                                                                                                                                                                                                                                                                                                                                                    Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Napoleone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              J. Ashkenazi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Desnoyers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ..омвЕR: 60/149638
: 1999-08-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER: 60/169835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER: 60/
: 1999-08-03
                                                                                                                                                                                                                                                                                                                                                                                                                  Goddard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eaton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1999-08-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1999-07-28
                                                                                                                                                                                                                                                                                                                  Napier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ferrara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           52.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    60/169445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60/151733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              60/149320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       60/146963
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 555; DB
Pred. No. 2e-58
28; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           . No. 2e-50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR PRIOR
                                    PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR
FILING DATE: APPLICATION
  NUMBER:
```

OR APPLICATION NUMBER: 60/109304
OR FILING DATE: 1998-11-20
OR APPLICATION NUMBER: 60/125778
OR FILING DATE: 1999-03-23
OR APPLICATION NUMBER: 60/139695
OR FILING DATE: 1999-06-15
OR APPLICATION NUMBER: 60/145070
OR RELING DATE: 1999-07-20
OR FILING DATE: 1999-07-20 OR APPLICATION NUMBER: 60/074092
OR FILING DATE: 1998-02-09
OR FILING DATE: 1998-03-25
OR APPLICATION NUMBER: 60/081049
OR FILING DATE: 1998-04-08
OR FILING DATE: 1998-04-08
OR FILING DATE: 1998-08-10
OR APPLICATION NUMBER: 60/095998
OR FILING DATE: 1998-08-10
OR APPLICATION NUMBER: 60/097000 DR FILING DATE: 1997-10-29

OR APPLICATION NUMBER: 60/066364

OR FILING DATE: 1997-11-21

OR APPLICATION NUMBER: 60/066840

OR FILING DATE: 1997-11-25

OR APPLICATION NUMBER: 60/069694

OR APPLICATION NUMBER: 60/074086

OR FILING DATE: 1997-12-16

OR FILING DATE: 1998-02-09

OR APPLICATION NUMBER: 60/074086

OR FILING DATE: 1998-02-09 DATE: 1998-09-10

REFILING DATE: 1998-09-10

REFILING DATE: 1998-09-17

REFILING DATE: 1998-09-17

REFILING DATE: 1998-09-24

REFILING DATE: 1998-09-24

REFILING DATE: 1998-10-28

REFILING DATE: 1998-10-28 APPLICATION NUMBER: 08/933821 FILING DATE: 1997 -09-19 APPLICATION NUMBER: 08/960507 FILING DATE: 1997-10-29 APPLICATION NUMBER: 09/114844 FILING DATE: 1999-12-07 APPLICATION NUMBER: 08/ FILING DATE: 1997-08-26 APPLICATION NUMBER: FILING DATE: 1999-08 APPLICATION NUMBER: FILING DATE: 1997-10-APPLICATION NUMBER: 6 FILING DATE: 1997-10-FILING DATE: 1997-09-1
APPLICATION NUMBER: 60
FILING DATE: 1997-10-1
APPLICATION NUMBER: 60 APPLICATION NUMBER: FILING DATE: 1999-07 APPLICATION NUMBER: 60/099803 FILING DATE: 1998-09-10 APPLICATION NUMBER: 60/099811 FILING DATE: 1998-08-18 APPLICATION NUMBER: 60/0 FILING DATE: 1998-09-09 APPLICATION NUMBER: 6
FILING DATE: 1997-10APPLICATION NUMBER: 6 APPLICATION NUMBER: 60/059588 FILING DATE: 1997-09-17 FILING DATE: 1998-09-10 APPLICATION NUMBER: 60/ FILING DATE: 1997-09-18 APPLICATION NUMBER: 60 FILING DATE: 1997-09-APPLICATION NUMBER: 60/ FILING DATE: 1997-08-26 APPLICATION NUMBER: NUMBER: 60/169495 NUMBER: 60/149396 1999-08-17 999-07-26 60/063329 60/100858 9-17 60/099812 60/059115 3-17 08/918874 60/145698 60/106032 60/101922 60/099601 60/063733 60/063082 60/062816 60/062285 60/059263 60/056974

FILING

1998-08-19

```
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR
PRIOR
PRIOR
                                                                                                                                                                                                                                                                                                                                             OR FILING DATE: 1999-11-10
OR APPLICATION NUMBER: 09/423844
OR FILING DATE: 1999-11-12
OR APPLICATION NUMBER: 09/522342
OR FILING DATE: 2000-03-09
OR FILING DATE: 2000-04-13
OR APPLICATION NUMBER: 09/564610
OR FILING DATE: 2000-09-18
OR APPLICATION NUMBER: 09/665350
OR FILING DATE: 2000-09-18
OR APPLICATION NUMBER: 09/769238
OR FILING DATE: 2000-11-08
OR FILING DATE: 2000-11-08
OR APPLICATION NUMBER: 09/767609
OR FILING DATE: 2001-03-09
OR APPLICATION NUMBER: 09/767609
OR APPLICATION NUMBER: 09/7608689
OR APPLICATION NUMBER: 09/808689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OR FILING DATE: 1999-06-14
OR APPLICATION NUMBER: 09/333077
OR FILING DATE: 1999-06-14
OR APPLICATION NUMBER: 09/380137
OR FILING DATE: 1999-08-25
OR APPLICATION NUMBER: 09/380138
OR APPLICATION NUMBER: 09/380138
OR FILING DATE: 1999-08-25
OR FILING DATE: 1999-08-25
OR FILING DATE: 1999-08-25
OR FILING DATE: 1999-08-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OR FILING DATE: 1998-12-08
OR APPLICATION NUMBER: 09/254311
OR FILING DATE: 1999-03-03
OR APPLICATION NUMBER: 09/254460
OR FILING DATE: 1999-03-09
OR APPLICATION NUMBER: 09/254465
OR APPLICATION NUMBER: 09/254465
OR FILING DATE: 1999-03-05
OR FILING DATE: 1999-04-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 09/332928
FILING DATE: 1999-06-14
APPLICATION NUMBER: 09/332929
FILING DATE: 1999-06-14
APPLICATION NUMBER: 09/333075
                                              APPLICATION NUMBER: PCT/US98/14552
FILING DATE: 1998-07-14
APPLICATION NUMBER: PCT/US98/18824
FILING DATE: 1998-09-10
APPLICATION NUMBER: PCT/US98/19093
                                                                                                                                                                          FILING DATE: 2001-05-30
APPLICATION NUMBER: 09/872035
FILING DATE: 2001-06-01
APPLICATION NUMBER: 09/886342
FILING DATE: 2001-06-19
                                                                                                                                                                                                                                                                            FILING DATE: 2001-05-25
APPLICATION NUMBER: 09/870574
FILING DATE: 2001-05-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 09/180997
FILING DATE: 1998-09-10
APPLICATION NUMBER: 09/202088
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 1998-08-1
APPLICATION NUMBER: 09
FILING DATE: 1998-08-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 09/403297 FILING DATE: 1999-10-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 09/403296 FILING DATE: 1999-10-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 09/423741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1998-09-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 09/158342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: FILING DATE: 1998-0
FILING DATE: 1998-09-14
APPLICATION NUMBER: PCT/US98/19330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09/136804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             09/136828
```

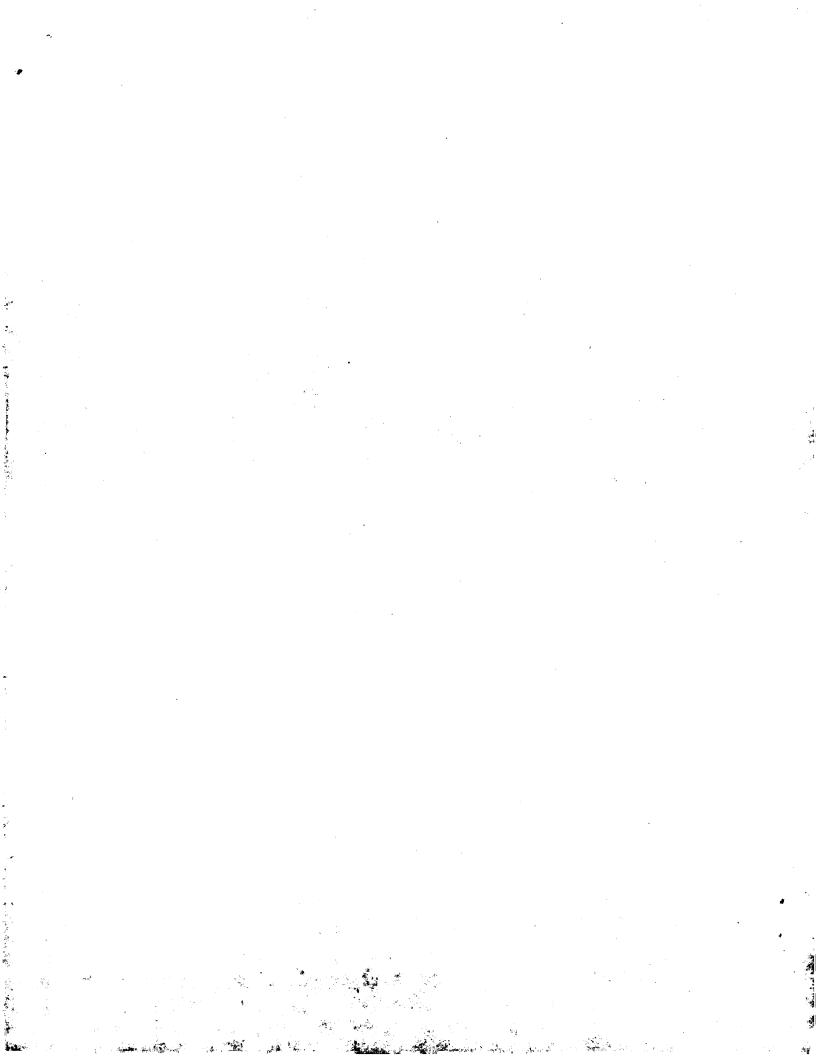
```
Qy
                                                                           В
                                                                                                        δõ
                                                                                                                                                   В
                                                                                                                                                                                  Ω
                                                                                                                                                                                                                                              Query Match
Best Local
                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR PRIOR PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR
                                                                                                                                                                                                                                                                                                                                                     OR APPLICATION NUMBER: PCT/US98/24855
OR FILING DATE: 1998-11-20
OR APPLICATION NUMBER: PCT/US98/25108
OR FILING DATE: 1998-12-01
OR APPLICATION NUMBER: PCT/US98/25190
OR FILING DATE: 1998-11-25
OR APPLICATION NUMBER: PCT/US99/05028
OR FILING DATE: 1999-03-08
OR APPLICATION NUMBER: PCT/US99/12252
OR FILING DATE: 1999-06-02
OR APPLICATION NUMBER: PCT/US99/20111
OR APPLICATION NUMBER: PCT/US99/20111
OR APPLICATION NUMBER: PCT/US99/20594
101
                                                                                                                                                 60
                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: PCT/US99/21090 FILING DATE: 1999-09-15 APPLICATION NUMBER: PCT/US99/21547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: PCT/US98/19437 FILING DATE: 1998-09-17
                                                                       al Similarity
108; Conserv
                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                            52.2%;
                                                                                                                                                                                                                            28;
                                                                                                                                                                                                                         Score 555; DB 9
Pred. No. 2e-50;
8; Mismatches
                                                                                                                                                                                                                                                             DB 9; Length 166;
                                                                                                                                                                                                                            19;
                                                                                                                                                                                                                            Indels
                                    206
 166
```

12;

Gaps

4.

Search completed: March 13, Job time : 28 secs 2003, 15:38:42



```
Result
                                                                                                                                                                                                                                                                                                                                                                                      Database :
                                                                                                                                                                                                                                                                                                                                                                                                                           -MODEL=frame+_p2n.model -DEV=xlh
-Q=/Cgn2_1/USPTQ_spool/USO9674256/runat_06032003_154830_22451/app_query.fasta_1.391
-Q=/Cgn2_1/USPTQ_spool/USO9674256/runat_06032003_154830_22451/app_query.fasta_1.391
-DB=Issued_Patents_NA -QFMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -STRATT=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE-LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=USO9674266_eCGN_1_140_@runat_06032003_154830_22451 -NCPU=6 -ICPU=3
-NO_XLPXY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OM protein - nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Command line parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Maximum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Title:
                                                                                                                                                                            No
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    on:
     55
66
7
7
10
110
111
                                                                                                                                                                                                                                            Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB
DB
    856.5
856.5
856.5
683
.642
631
555
487.5
                                                                                                                                                                               Score
                                                                                                                                                                                                                                                                                                                                                                                                                  -YGAPEXT=0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  length:
                                                                                                                                                                                                                                                                                                     Issued_Patents_NA:*

1: /cgn2_6/ptodata/

2: /cgn2_6/ptodata/

3: /cgn2_6/ptodata/
4: /cgn2_6/ptodata/
5: /cgn2_6/ptodata/
6: /cgn2_6/ptodata/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Xgapop 10.0 , X
Ygapop 10.0 , X
Fgapop 6.0 , E
Delop 6.0 , F
                                                                                                                                                                               Match
                                                                                                                                                                                             Query
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      441362 seqs, 153338381 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-674-266A-181
1063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    March 13,
    93.2
90.4
86.0
80.6
80.6
80.6
64.3
559.4
45.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RLSCAGTLSGSGPHPSRRLT.....DTALLLDNMKKALKLLKTEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Copyright
                                                                                                                                                                                                                                                                                                  /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
/cgn2_6/ptodata/1/ina/5B_COMB.seq:*
/cgn2_6/ptodata/1/ina/6A_COMB.seq:*
/cgn2_6/ptodata/1/ina/6B_COMB.seq:*
/cgn2_6/ptodata/1/ina/BCTUS_COMB.seq:*
/cgn2_6/ptodata/1/ina/backfiles1.seq:*
                                                                                                                                                                               Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000000000
                             875
1689
940
793
793
793
401
386
404
                                                                                                                                                                                                                                                                                                                                                                                                                  -DELOP=6 -DELEXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2003, 18:20:01; Search time 39 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GenCore version 5.1.4_p5_4578 (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Xgapext
Ygapext
Fgapext
Delext
US-08-916-576B-1.
US-09-247-155-149
US-09-247-155-149
US-09-040-984-78
US-09-123-912-78
US-09-643-597-78
US-08-916-576B-35
US-08-916-576B-35
US-08-916-576B-36
US-08-916-576B-36
                                                                                                                                                                               Ħ
                                                                                                                                                                                                                      SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.5
0.5
7.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (without alignments)
1619.882 Million cell updates/sec
                                                                                                                                                                             Description
 Sequence
              1, Appli
61, Appl
149, Appl
78, Appl
78, Appl
78, Appl
32, Appl
35, Appl
282, Appl
282, Appl
5, Appl
5, Appl
5, Appl
  Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 1
US-08-916-576B-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    00000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C
                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: WASHINGTON
STATE: DC
                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                  ADDRESSEE:
                                                                                                                                                                                                                                               RY: US
20005-3934
```

٤	79.5	9	9	9	9	9	9	9	9	9		86	7		رت د	0	0	104	104	104	129	147.5	158		Ν	S	ū	ū	ū	252	25	
7.5	7.5				•	٠	٠		7.5		•					٠			9.8	٠	٠	13.9	4.	7.	0.	ω.	ω.	Ψ	ω.	23.7	ω ·	5
17	7175	17	17	17	17	46	46	47	47	4	Ν	ū	0	4	2	w	2	2	329	2	$\vdash$	$\vdash$	0	w	2	ū	ப	ū	ū	159	S.	Ö
w	w	N	2	ν	μ	N		ν	نسو	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-08-450-562-	US-08-949-386-8	-08-149-097D-	-08-223-305C-	-08-193-078	-08-455-543A-	8-311-363-1	-07-745-2	-08-311-363-1	-07-745-20	-09-221-017B-6	-08-916-576B-1	-09-484-	8-916-576B-1	-09-534-63	-08-916-576B-2	-08-916-576B-1	-08-916-576B-	-08-916-576B-1	8-916-576	-08-916-576B-1	-08-916-576B-4	-08-916-576B-4	-08-916-576B-1	-08-916-576в-	-08-916-576B-	32-149A-2	-09-352-616A-20	-09-439-313-20	-09-605-785-2	S-09-030-607-20	S-08-916-576B-3	16-57
Sequence	Sequence	uen	Sequence	eg.	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	equenc	Sequence	Sequence	egu	Sequence	equ	equenc	equenc	Sequence	Sequence
œ	8	8	ω,	8	8	12,	12,	4	14,	685	16,	65,		•		S		ω	2	11,	0	41,	9	8	-	8	30	8	209	209	37	10,
	Appli	-	Appli	$\overline{}$	Appli	Appl	Appl	App	Appl	Αp	App	Appl	Appl	Appli	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	, Ap	, Ap	, Ab	, Ap	, Ap		Appl

## ALIGNMENTS

S-08-916-576B-1
Sequence 1, Application US/08916576B
Patent No. 6171816
GENERAL INFORMATION:
APPLICANT: PILLON, PATRICK J.
APPLICANT: EDNER, REINHARD
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESSOENDENCE ADDRESSE: ADDRESSE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOTWARE: PATENTIAN NUMBER: US/08/916,576B
FILING DATE: 23-AUG-196
APPLICATION NUMBER: US/08/916,576B
FILING DATE: 23-AUG-196
AFTORNEY/AGENT INFORMATION:
NAME: STEETE, ERIC K.
REGISTRATION NUMBER: 36,688
REGISTRATION NUMBER: 36,688
REGISTRATION NUMBER: 31,688

```
Percent Similarity:
Best Local Similarity:
Query Match:
                                  RESULT
                                                         В
                                                                           Q
                                                                                                      В
                                                                                                                       δ
                                                                                                                                                   멍
                                                                                                                                                                     Qy
                                                                                                                                                                                                В
                                                                                                                                                                                                                  Q
                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                           B
                                                                                                                                                                                                                                                                                                             Ş
                                                                                                                                                                                                                                                                                                                                      DЬ
                                                                                                                                                                                                                                                                                                                                                           δõ
                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                   멍
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ş
                       US-09-247-155-61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-674-266A-181 (1-206) x US-08-916-576B-1 (1-875)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-916-576B-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (202) 371-2540
INFORMATION FOR SEO ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 875 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
Sequence 61, Application Patent No. 6312922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
NAME/KEY:
LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: cDNA
                                                                                                  494
                                                          554
                                                                                                                                                    434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŏ
..
                                                                                                                                                                          153
                                                                                                                                                                                                                                              314
                                                                                                                                                                                                                                                                    113
                                                                                                                                                                                                                                                                                           254
                                                                                                                                                                                                                                                                                                                                         194
                                                                                                                                                                                                                                                                                                                                                                                      134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY:
                                                                                                                                                                                                                                                                                                                 93
                                                                                                                                                                                                                                                                                                                                                               73
                                                                                                                                                                                                                                                                                                                                                                                                           53
                                                                                                                                                                                                                                                                                                                                                                                                                                   74
                                                                                                                                                                                                                                                                                                                                                                                                                                                          ű
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14 CCGATTCCTAGCCGCCGACTCACACAAGGCAGGTGGGGTGAGGAAATCCAGAGTTGCCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY:
                                                                                                                                                              GlyGlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle
                                                                                                                                                                                                                                           ProHisSerGinAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla
                                                                                                                                                                                                                                                                                                                                      GACAACATGAAGAAAGCTCTCAAGTTGCTGAAGACTGAATTG
                                                                  AspAsnMetLysLysAlaLeuLysLeuLeuLysThrGluLeu 206
                                                                                                               GGCCAGTATGTCCCCCAGGATTATGTTTGTTGACCCATCTCTGACAGTTAGAGCCGATATC
                                                                                                                                                                                                 GAGCAGTTTGTCCTCCAATCTGGTTTATGAAACAACTGACAAACACCTTTCTCCTGAT
                                                                                                                                                                                                          GluGlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAsp
                                                                                                                                                                                                                                                                                        GATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAAACTGCCC
                                                                                                                                                                                                                                                                                                                                                                                                 AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro
                                                                                                                                                                                                                                                                                                                                                                                                                                   GAGAAAATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                              GluLysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ProHisProSerArgArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMet
                                                                                                      ACTGGAAGATATTCAAATCGTCTCTATGCTTACGAACCTGCAGATACAGCTCTGTTGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CDS
71..595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mat_peptide
131..595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sig_peptide
71..130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4.9e-117
991.00
99.48%
99.48%
93.23%
         US/09247155A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative: Mismatches: Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length:
Matches:
                                                       595
                                                                                                                                                                                                                     152
                                                                                                                                                                                                                                                                    132
                                                                                                                           192
                                                                                                                                                   493
                                                                                                                                                                                                                                             373
                                                                                                                                                                                                                                                                                                                                      253
                                                                                                                                                                                                                                                                                                                                                              92
                                                                                                                                                                                                                                                                                                                                                                                   193
                                                                                                                                                                                                                                                                                                                                                                                                           72
                                                                                                                                                                                                                                                                                                                                                                                                                                  133
                                                                                                                                                                                                                                                                                                                                                                                                                                                         52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               73
```

```
GENERAL INFORMATION:
APPLICANT: Dumms Milne Edwards, Jean
APPLICANT: Dumms Milne Edwards, Jean
APPLICANT: Bouguelert, Lydie
APPLICANT: Bougueleret, Lydie
TITLE OF INVENTION: Complementary DN
FILE REFERENCE, GENSET. 021A
FILE REFERENCE, GENSET: 021A
CURRENT APPLICATION NUMBER: US/09/24
                            Š
                                                          B
                                                                                   QΥ
                                                                                                                      Вþ
                                                                                                                                                 Qy
                                                                                                                                                                                DЬ
                                                                                                                                                                                                             δÃ
                                                                                                                                                                                                                                           Вþ
                                                                                                                                                                                                                                                                    Qγ
                                                                                                                                                                                                                                                                                                     В
                                                                                                                                                                                                                                                                                                                                  QY
                                                                                                                                                                                                                                                                                                                                                                                                            Best Local S
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; NAME/KEY: polyA_site
; LOCATION: 1674..1689
US-09-247-155-61
                                                                                                                                                                                                                                                                                                                                                                US-09-674-266A-181 (1-206) x US-09-247-155-61 (1-1689)
                                                                                                                                                                                                                                                                                                                                                                                                                                          Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/247,155A CURRENT FILING DATE: 1999-02-09 EARLIER APPLICATION NUMBER: 60/074,121 EARLIER FILING DATE: 1998-02-09 EARLIER APPLICATION NUMBER: 60/081,563 EARLIER FILING DATE: 1998-04-13 EARLIER APPLICATION NUMBER: 60/996,116 EARLIER APPLICATION NUMBER: 60/996,116 EARLIER FILING DATE: 1998-04-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 1689
TYPE: DNA
ORGANISM: Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EARLIER APPLICATION NUMBER: 60/099,273
EARLIER FILING DATE: 1998-10-04
NUMBER OF SEO ID NOS: 182
SOFTWARE: Patent.pm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: sig_peptide
LOCATION: 51..110
OTHER INFORMATION: Von Heijne matrix
OTHER INFORMATION: score 11.2
OTHER INFORMATION: seg AFLLLVALSYTLA/RD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY:
LOCATION:
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: polyA_signal LOCATION: 1653..1658 FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Мо
..
                              112
                                                                                                                                                                                  111
291
                                                            231
                                                                                                                      171
                                                                                        92
                                                                                                                                                    72
                                                                                                                                                                                                             52
                                                                                                                                                                                                                                             51
                                                                                                                                                                                                                                                                         32
                                                                                                                                                                                                                                                                                                                                     12
                                                                                                                                                                                                                                                                                                       9
                                                                                                                    GlyProHisProSerArgArgLeuThrGlnGlyArgTrpValArgLysSerArgValAla
              CysProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeu
                                                                          AlaLeuTyrLysSerLysThrSerAsnLysProLeuMetIleIleHisHisLeuAspGlu
                                                                                                                                                                                  AGAGATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAAACTG
                                                                                                                                                                                               ArgAspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeu
                                                                                                                                                                                                                                                                                                       GGACCGCATCCTAGCCGCCGACTCACACACAAGGC---
TGCCCACACAGTCAAGCTTTAAAGAAAGTGTTTGCTGAAAATAAAGAAATCCAGAAATTG
                                                            GCTCTATATAAATCCAAGACAAGCAACAAACCCTTGATGATTATTCATCACTTGGATGAG
                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    51..575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sapiens
                                                                                                                                                                                                                                                                                                                                                                                                         9.27e-113
961.00
96.92%
96.92%
90.40%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Jean-Baptiste
                                                                                                                                                                                                                                                                                                                                                                                           Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                            1689
189
0
0
1
                              131
                                                                                        111
                                                                                                                                                                                                                                           110
350
                                                            290
                                                                                                                      230
                                                                                                                                                 91
                                                                                                                                                                                  170
                                                                                                                                                                                                             71
                                                                                                                                                                                                                                                                         51
                                                                                                                                                                                                                                                                                                     50
```

```
; NAME/KEY: misc_feature
; LOCATION: 482
; OTHER INFORMATION: n=a,
US-09-247-155-149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ъ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ρ
  밁
                          Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-247-155-149
                                                                                                                                            Score:
                                                        US-09-674-266A-181 (1-206) x US-09-247-155-149 (1-940)
                                                                                                                                                                         Alignment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EARLIER FILING DATE: 1998-10-04
NUMBER OF SEQ ID NOS: 182
SOFTWARE: Patent.pm
SEQ ID NO 149
LENGTH: 940
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 149, Application US/09247155A Patent No. 6312922
                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: 177..569
FEATURE:
NAME/KEY: Sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EARLIER APPLICATION NUMBER: 60/074,121
EARLIER FILING DATE: 1998-02-09
EARLIER APPLICATION NUMBER: 60/091,563
EARLIER FILING DATE: 1998-04-13
EARLIER APPLICATION NUMBER: 60/096,116
EARLIER FILING DATE: 1998-08-10
EARLIER APPLICATION NUMBER: 60/099,273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Complementary DNAS
FILE REFERENCE: GENSET.021A
CURRENT APPLICATION NUMBER: US/09/247,155A
CURRENT FILING DATE: 1999-02-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Dumas Milne Edwards, Jean-Baptiste APPLICANT: Duclert, Aymeric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Bougueleret, Lydie
                                                                                                                                                                                                                                                                         NAME/KEY:
LOCATION:
                                                                                                                                                                                                                                                                                                              NAME/KEY: sig_peptide
LOCATION: 177..236
OTHER INFORMATION: von Heijne matrix
OTHER INFORMATION: score 11.1999998092651
OTHER INFORMATION: seg AFLLLVALSYTLA/RD
                                                                                                                                                                                                                                                                                                       FEATURE
                                                                                                                                                                                                                                                              FEATURE:
  103
                                                                                                                                                            Мо
..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            132
LeuAspAsnMetLysLysAlaLeuLysLeuLeuLysThrGluLeu 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IleThrGlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GATGGCCAGTATGTCCCCCAGGATTATGTTTGTTGACCCATCTCTGACAGTTAGAGCCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AspGlyGlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCAGAGCAGTTTGTCCTCCTCAATCTGGTTTATGAAACAACTGACAAACACCTTTCTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AlaGluGlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTTGACAACATGAAGAAGCTCTCAAGTTGCTGAAGACTGAATTG 575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATCACTGGAAGATATTCAAATCGTCTCTATGCTTACGAACCTGCAGATACAGCTCTGTTG
                                                                                                                                                                                                                                                                          polyA_site
931..939
                                                                                                3.69e-107
914.00
90.82%
90.82%
85.98%
                                                                                                                                                                                                                  a
                                                                                                                                                                                                                  or
                                                                                                Conservative: Mismatches: Indels:
                                                                                                                                            Length:
Matches:
                                                                                    940
188
0
12
8 .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           QV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ρ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ъ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ρy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Вþ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DЬ
```

```
US-09-040-984-78
                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 78, Patent No. 6
CLASSIFICATION:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
NAME: Maki, David J.
NAME: Maki, David J.
1,392
REFERENCE/DOCKET NUMBER: 2101
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-622-4900
                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                      SOFTWARE: FastSEQ for Windows Version CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/040,984
                                                                                                                                                                                                           COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: COMPOUND OF LONG
                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Reed, Steven G. APPLICANT: Wang, TongTong
                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  200 sLeuLeuLysThrGluLeu 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                160
                                                                                                                                                             COMPUTER: IBM CONTROL OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                41
                                                                                                                                                                                                                          COUNTRY: U
ZIP: 98104
                                                                                                                                                                                                                                                                 STREET: 6300 (CITY: Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21
                                                                                                           FILING DATE:
                                                                                                                                                                                              MEDIUM TYPE:
                                                                                                                                                                                                                                                                                               ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgGlyTrpGly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAAGGC----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GlnGlyArgTrpValArgLysSerArgValAlaMetGluLysIleProValSerAlaPhe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTATGCTTACGAACCTGCAGATACAGCTCTGTTGCTTGACAACATGAAGAAAGCTCTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LeuLeuLeuValAlaLeuSerTyrThrLeuAlaArgAspThrThrValLysProGlyAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTTGCTGAAGACTGAATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           uTyrAlaTyrGluProAlaAspThrAlaLeuLeuLeuAspAsnMetLysLysAlaLeuLy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTTTGTTGACCCATCTCTGACAGTTAGAGCCGATATCACTGGAAGATATTCAAAYCGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tPheValAspProSerLeuThrValArgAlaAspIleThrGlyArgTyrSerAsnArgLe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GACCAACTCATCTGGACACARACATATGAARAARCTCTATWTAAATCCAARACAAGCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAAAAGGACACAAAGGACTCTCGACCCAAACTGCCCCAGACCCTCTCCAGAGGTTGGGGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGAGATACCACAGTCAAACCTGGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                3, Application US/09040984 6210883
                                                                                                                                                                                                                                                     WΑ
                                                                                                                                                                                                                                                                                6300 Columbia Center,
                                                                                                                                                                                                                                        USA
                                                                                                                                                                            IBM Compatible
                                                                                                                                                                                                                                                                                               SEED and BERRY LLP
                                                                                                                                                                                              Diskette
                                                                                                          18-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -----AGAGTTGCCATGGAAAAATTCCAGTGTCAGCATTC
                                                                                                                                                                                                                                                                                                                                                       COMPOUNDS AND METHODS
                                                                                                                                                                 DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      702
                                     210121.456
                                                                                                                                                                                                                                                                                                                                         CANCER
                                                                                                                                                                                                                                                                                  701
                                                                                                                                                                                                                                                                                  Fifth
                                                                                                                                                                                                                                                                                  Avenue
                                                                                                                                                                                                                                                                                                                                                       FOR DIAGNOSIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         40
```

206-282-6031

```
Ş
                                                                                                                                                                                      В
                                                                                                                                                                                                      Š
                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                               Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                 US-09-123-912-78
                                                                                                                                               Вр
                                                                                                                                                                                                                                                                       Ъ
                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                              Вþ
                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                     망
                                                                                                                                                                                                                                                                                                                                                                      ş
                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                             QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     뫄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-674-266A-181 (1-206) x US-09-040-984-78 (1-793)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Alignment Scores:
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Wang, Tongtong
APPLICANT: Wang, Tongtong
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
FILE REFERENCE: 210121.455C1
CURRENT APPLICATION NUMBER: US/09/123,912A
CURRENT FILING DATE: 1998-07-72
PRIOR APPLICATION NUMBER: 09/040,802
PRIOR FILING DATE: 1998-03-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO: 7
SEQUENCE CHARACTERISTICS:
LENGTH: 793 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                           Sequence 78, Application Patent No. 6312695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NO . .
                                                                                                                                               540
                                                                                                                                                                                        481
                                                                                                                                                                                                                               422
                                                                                                                                                                                                                                                                        362
                                                                                                                                                                                                                                                                                                                302
                                                                                                                                                                                                                                                                                                                                                      242
                                                                                                                                                                   194
                                                                                                                                                                                                                                                                                          134
                                                                                                                                                                                                                                                                                                                                   114
                                                                                                                                                                                                                                                                                                                                                                                             182
                                                                                                                                                                                                                                                                                                                                                                                                                                      122
                                                                                                                                                                                                                                                    154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                          94
                                                                                                                                                                                                                                                                                                                                                                                                                74
                                                                                                                                                                                                                                                                                                                                                                                                                                                         54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14 HlsProSerArgArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMetGlu
                                                                                                                                             GlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuLeuLeuAsp 193
                                                                                                                                                                                                                             GlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIleThr 173
                                                                                                                                                                                                                                                                      TATAAATCCAAGACAAGCAACAAACCCTTGATGATTATTCATCACTTGGATGAGTGCCCA
                                                                                                                                                                                                                                                                                                                                                                 TyrLysSerLysThrSerAsnLysProLeuMetIleIleHisHisLeuAspGluCysPro 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CATCCTAGCCGCCGACTCACACAAGGCAGGTGGGGTGAGGAAATCCAGAGTTGCCATGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAAATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGAGAT 12:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6.17e-100
856.50
94.74%
93.16%
80.57%
                                                                                                     US/09123912A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             78:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length:
Matches:
Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                793
177
3
9
3
                                                    ဝှု
                                                    LUNG
                                                                                                                                                                                                                                                                                                                                 133
                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                93
                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                   18:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \mathfrak{S}
```

δõ Дd Ωy

34

ω ω

53 61

LysTleProValSerAlaPheLeuLeuLeuValAlaLeuSerTyrThrLeuAlaArgAsp

```
Alignment
Pred. No.:
                             Query
                                                                                               ; NAME/KEY: modified; LOCATION: (787); OTHER INFORMATION: US-09-123-912-78
 US-09-674-266A-181
                              Percent Similarity:
Best Local Similarity:
Query Match:
                                                            Score:
                                                                                                                                                                                                                                                                                                                                    OTHER NAME/KEY: mour-
LOCATION: (708)
OTHER INFORMATION: Where n
NAME/KEY: modified_base
NAME/KEY: modified_base
NAME/KEY: modified_base
                                                                                                                                                                                                OTHER.
NAME/KEY: mour-
NAME/KEY: (748)
LOCATION: (748)
OTHER INFORMATION: where n
OTHER INFORMATION: where n
OTHER TOTAL
                                                                                                                                                                                                                                                                                                                 OTHLE.
NAME/KEY: modified
LOCATION: (710)
OTHER INFORMATION: Where n
OTHER MODIFIED
THER TORONATION: Where n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO
LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: modified_base
LOCATION: (309)
OTHER INFORMATION: where n
NAME/KEY: modified_base ·
LOCATION: (492)
OTHER INFORMATION: where n
NAME/KEY: modified_base
LOCATION: (563)
                                                                                                                          LOCATION: (762)
COCATION: (762)
COTHER INFORMATION: Where n
NAME/KEY: modified_base
LOCATION: (765)
COTHER INFORMATION: Where n
NAME/KEY: modified_base
                                                                                                                                                                                                                                            OTHER INFORMATION: Where n NAME/KEY: modified_base LOCATION: (732)
OTHER INFORMATION: Where n NAME/KEY: modified_base LOCATION: (740)
OTHER INFORMATION: Where n NAME/KEY: modified_base
                                                                                                                                                                                                                                                                                                                                                                                       LOCATION: (660)
OTHER INFORMATION: Where n
NAME/KEY: modified_base
LOCATION: (703)
OTHER INFORMATION: where n
NAME/KEY: modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Where n
NAME/KEY: modified_base
LOCATION: (657)
OTHER INFORMATION: Where n
NAME/KEY: modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQ ID NOS:
SOFTWARE: Patentin Ve
                                                                                                                                                                           NAME/KEY: I
                                                                                                                                                                                    LOCATION: (758)
OTHER INFORMATION: Where
NAME/KEY: modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
                                                                     .
No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NO 78
TH: 793
                                                                              Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PatentIn Ver.
 (1-206)
                             6.17e-100
856.50
94.74%
93.16%
80.57%
                                                                                                          Where
x US-09-123-912-78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2.0
                                                                                                         3
                                                                                                                                       =
                                                                                                                                                                   Þ
                                                                                                                                                                                               ¤
                                                                                                                                                                                                                           Þ
                                                                                                                                                                                                                                                        5
                                                                                                                                                                                                                                                                                   5
                                                                                                                                                                                                                                                                                                              5
                                                                                                                                                                                                                                                                                                                                         Þ
                                                                                                                                                                                                                                                                                                                                                                      3
                                                                                                                                                                                                                                                                                                                                                                                                   Þ
                                                                                                                                                                                                                                                                                                                                                                                                                               3
                                                                                                                                                                                                                                                                                                                                                                                                                                                          =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Þ
                                                                                                          is
                                                                                                                                       is
                                                                                                                                                                   żs
                                                                                                                                                                                               is
                                                                                                                                                                                                                          is
                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                  İs
                                                                                                                                                                                                                                                                                                                                         İS
                                                                                                                                                                                                                                                                                                                                                                                                   is
                                                                                                                                                                                                                                                                                                                                                                                                                              ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Į.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               is
                                                                                                                                                                                                                                                                                                              is
                                                                                                                                                                                                                                                                                                                                                                      įs
                                                                                                          a
                                                                                                                                       a,
                                                                                                                                                                   a,
                                                                                                                                                                                               a,
                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                   ū
                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                      a,
                                                                                                                                                                                                                                                                                                                                                                                                   a
,
                                                                                                                                                                                                                                                                                                                                                                                                                               a,
                                                                                                                                                                                                                                                                                                                                                                                                                                                          a,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a,
                                                                                                                                                                   'n
                                                                                                                                                                                               ņ
                                                                                                                                                                                                                                                       ç
                                                                                                                                                                                                                                                                                   'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                          ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ó
                                                                                                          ç
                                                                                                                                       ó
                                                                                                                                                                                                                          ú
                                                                                                                                                                                                                                                                                                              ç
                                                                                                                                                                                                                                                                                                                                         ç
                                                                                                                                                                                                                                                                                                                                                                      ç
                                                                                                                                                                                                                                                                                                                                                                                                   ú
                                                                                                                                                                                                                                                                                                                                                                                                                               ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ú
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ó
                                                Length:
Matches:
Conservative:
                              Mismatches:
Indels:
                                                                                                                                                                   g
                                                                                                                                                                                              9
                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                or
S
                                                                                                                                       or
                                                                                                                                                                                                or
                                                                                                                                                                                                                           or
                                                                                                                                                                                                                                                                                                                                          or
                                                                                                                                                                                                                                                                                                                                                                       or
                                                                                                                                                                                                                                                                                                                                                                                                   or
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ç
                                                                                                                                                                                                                          4
                                                                                                                                                                                                                                                                                                                                         d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4
 (1-793)
                    793
177
3
9
3
```

```
B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Qy
                                                                                                                                                                                                                                                                                                                                                                                                                      QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 γ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Вb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       οy
                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                                                            В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              В
         Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                           US-09-643-597-78
                                                                                                                                                                                                                                                                                                                                                                                   RESULT
                               Score:
                                                                    Sn
                                                                                                                                                                                                                                                                                                                                                      Sequence 71 Patent No.
                                                                                                                                        NUMBER OF SEQ ID NOS:
SOFTWARE: FastSEQ for
SEQ ID NO 78
LENGTH: 793
                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                             CURRENT ETLING DATE: 2000-08-21
                                                                                                                                                                                                 APPLICANT: Henderson, Robert A.
APPLICANT: McNeill, Patticia D.
TITLE OF INVENTION: COMPOSITIONS AND
TITLE OF INVENTION: AND DIAGNOSIS OF
FILE REFERENCE: 210121.455C11
                                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                      ORGANISM: Homo sapien FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(793)
                                                                                OTHER INFORMATION:
                                                                                                                               TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       242
                                                                                                                                                                                                                                                                                                                                                                                                       540
                                                                                                                                                                                                                                                                                                                                                                                                                         194
                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              62
                                                                                                                                                                                                                                                                                                                                                                                                     GlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuLeuAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIleThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAspGly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGTATGT-CCCAGGATTATGTTTGTTGACCCATCTCTGACAGTTGAAGCCGATATCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAGTTTGTCCTCCTCAATCTGGTTTATGAAACAACTGACAAACACCTTTCTCCTGATGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                            GGAAGATATTCNAACCGTCTCTATGCTTACAAACT-GCAGATACGCTCTGTTGCTTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAAATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGAGAT
                                                                                                                                                                                                                                                                                                                                                      78, Application 5. 6426072
                                                                                                                                                            FastSEQ for Windows Version
                                                                                                                                                                                                                                                                                                                      Wang, Tonyu
Fan, Liqun
                                                                                                                                                                                                                                                                       Fanger, Gary R.
Li, Samuel X.
                                                                                                                                                                                                                                                   Wang, Aijun
Skeiky, Yasir A.W.
                                                                                                                                                                                                                                                                                           Hosken,
                                                                                                                                                                                                                                                                                                    Bangur, Chaitanya
                                                                                                                                                                                                                                                                                                              Kalos, Michael D.
                                                                                                                                                                                                                                                                                                                                  Tongtong
                                                                                3
                                                                                                                                                                                                                                                                                           Nancy
6.17e-100
856.50
94.74%
93.16%
80.57%
                                                                              A,T,
                                                                                                                                                                                                                                                                                                                                                               US/09643597
                                                                                ò
                                                                                                                                                                                                                                                                                                    Ø
                                                                               or
Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                           METHODS FOR LUNG CANCER
                                                                                                                                                                                                                                                                                                                                                                                                       566
                                                                                                                                                                                                                                                                                                                                                                                                                        203
                                                                                                                                                                                                                      THE
                                                                                                                                                                                                                       THERAPY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    48C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              153
```

```
δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              γ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Вb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ρy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
                       Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                       RESULT 7
US-09-221-298-32
                                                                                                                                                                                                                                                                                                                                                              δÃ
                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                            δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                   DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-674-266A-181 (1-206) x US-09-643-597-78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DΒ
                                                                                         Alignment Scores:
                                                                                                                  ; ORGANISM: Human
US-09-221-298-32
                                                                                                                                                                                                                                                                                                                                         Ъ
US-09-674-266A-181 (1-206) x US-09-221-298-32 (1-401)
                                                                      Score
                                                                                  Pred.
                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
                                                                                                                                                  SEQ ID NO 32
LENGTH: 401
                                                                                                                                                                                                                                                                                Sequence 32, Application Patent No. 6284241
                                                                                                                                                                                                                      TITLE OF INVENTION: COMPOUNDS AND M TITLE OF INVENTION: OF COLON CANCER FILE REFERENCE: 210121.471
                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/221, CURRENT FILING DATE: 1998-12-23
                                                                                                                                                                           SOFTWARE: FastSEQ
                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 112
                                                                                                                                         TYPE: DNA
                                                                                  N<sub>O</sub>
                                                                                                                                                                                                                                                                                                                                                                194
                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                               174
                                                                                                                                                                                                                                                                                                                                                                                                                                      422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      122
                                                                                                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                                                                                                                                                                          154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           34
                                                                                                                                                                                                                                                                                                                                                      GlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuLeuAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                   TyrLysSerLysThrSerAsnLysProLeuMetIleIleHisHisLeuAspGluCysPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ThrLeuSerArgGlyTrpGlyAspGlnLeuIleTrpThrGlnThrTyrGluGluAlaLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGln
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LysIleProValSerAlaPheLeuLeuLeuValAlaLeuSerTyrThrLeuAlaArgAsp
                                                                                                                                                                                                                                                                                                                                           CAT---GAAAAAGCTCTCAAGTTGCTNAAA 566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TATTAAATCCAAGACAAGCAACCATTGATGATTATTCATCACTTGGATGAGTGCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAAATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGAGAT
                                                                                                                                                                                                                                                                                                                                                                                       GGAAGATATTCNAACCGTCTCTATGCTTACAAACT-GCAGATACGCTCTGTTGCTTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCCTCTCCAGAGGTTGGGGGTGACCAACTCATCTGGACTCAGACATATGAAGAAGCTCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAAACTGCCCCAG
                                                                                                                                                                           for Windows Version
                                 2.96e-78
683.00
98.51%
98.51%
64.25%
                                                                                                                                                                                                                                                                                             US/09221298
                                                                                                                                                                                                                                              METHODS
                                 Conservative: Mismatches: Indels:
                                                                   Length:
Matches:
                       Gaps:
                                                                                                                                                                                                                                                                                                                                                                203
                                                                                                                                                                                                                                                FOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (1-793)
                                                                                                                                                                                                                                              THERAPY
                                                                                                                                                                                                                                                AND
                                                                                                                                                                                                                                                                                                                                                                                       539
                                                                                                                                                                                                                                                                                                                                                                                                               193
                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                          173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
```

```
US-08-916-576B-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-916-576B-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      д
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ρy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 3:
Patent No.
                                                                                                                                   APPLICATION NUMBER: US/08/916,576B
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/024,347
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K,
REGISTRATION NUMBER: 36,688
REGISTRATION NUMBER: 36,688
REGISTRATION NUMBER: 1488.050000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                       TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: YU, GUO-LIANG
APPLICANT: EDILLON, PATRICK J.
APPLICANT: EBNER, REINHAKD
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
                                                                                                           TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
          TOPOLOGY: 11
                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                     COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compati
                              TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, STREET: 1100 NEW YORK AVENUE, SUITE 600 CITY: WASHINGTON STATE: DC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        122
                                                           LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTCCTCAATCTGGTTTATGAAACAACTGACAAACACCTTTCTCCTGATGGCCAGTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAspGlyGlnTyrVal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTTTAAAGAAAGTGTTTGCTGAAAATAAAGAAATCCAGAAATTGGCAGAGCAGTTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheVal 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                35, Application US/08916576B
o. 6171816
                                                         386 base pairs
                                                                                                                                                                                                                                                   US/08/916,576B
                                                                                     ა
ა
                                                                                                                                    1488.0500001
                                                                                                                                                                                                                                                                           Version
                                                                                                                                                                                                                                                                                                                                                                                                    P.L.L.C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        76
```

```
; FEATURE:

NAME/KEY: misc_feature

LOCATION: (1)...(404)

OTHER INFORMATION: n =

US-09-643-597-282
                                                                                                                                                                                                                                                                                                                                                                                   δÃ
                                                                                                                                                                                                                                                                                                                                US-09-643-597-282
                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                          В
                                                                                                                                                                                                                                                                                                                                                                                                                              Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                     B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Вb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-674-266A-181 (1-206) x US-08-916-576B-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred.
Score:
                                                                 SEQ ID NO 282
LENGTH: 404
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match:
                                                                                                                                                                                                                                                                                              Sequence 282, Application No. 6426072
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Alignment Scores:
                                                                                                                                       TITLE OF INVENTION: COMPOSITIONS AND TITLE OF INVENTION: AND DIAGNOSIS OF ETLE REFERENCE: 210121.455C11
                                                                                             CURRENT APPLICATION NUMBER: US/09/643,597
CURRENT FILING DATE: 2000-08-21
NUMBER OF SEQ ID NOS: 369
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                            APPLICANT:
                                                      ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .
No.:
                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         141
                                                                                                                                                                                                                                                                                                                                                                                                                                161
                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TyrAlaTyrGluProAlaAspThr 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LysProLeuMetIleIleHisHisLeuAspGluCysProHisSerGlnAlaLeuLysLys 120
                                                                                                                                                                                                                                                                                                                                                                                                     GTTTATGAAACAACTGACAAACACCTTTCTCCTGATGGCCAGTATGTCCCCAGGATTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheValLeuLeuAsnLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ValTyrGluThrThrAspLysHisLeuSerProAspGlyGlnTyrValProArgIleMet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGTTTGCTGAAAATAAAGAAATCCAGAAATTGGCAGAGCAGTTTGTCCTCCTCAATCTG
                                                                                                                                                                                                                                                                                                          282, Application US/09643597
5. 6426072
                                                      Ното
                                                                                                                                                                                                                 Hosken, Nancy
Fanger, Gary R.
Li, Samuel X.
                                                                                                                                                                                                                                                                     Wang, Tongu
Fan, Ligun
                                                                                                                                                                       Henderson, Robert A.
McNeill, Patricia D.
                                                                                                                                                                                               Skeiky, Yasir A.W
                                                                                                                                                                                                           Wang, Aijun
                                                                                                                                                                                                                                                    Bangur, Chaitanya
                                                                                                                                                                                                                                                                Kalos, Michael
                                                    sapien
                                                                                                                                                                                                                                                                                  Tongtong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4.77e-73
642.00
99.22%
97.66%
60.40%
           A,T,C
                                                                                                                                                                                                                                                                Ū
           or,
                                                                                                                                                                                                                                                     ß
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length:
Matches:
                                                                                                                                                    LUNG CAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative:
                                                                                                                                                     CANCER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (1-386)
                                                                                                                                                               THE THERAPY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         386
125
2
                                                                                                                                                                                                                                                                                                                                                                                                      360
                                                                                                                                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                                                                                                                                                 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                120
```

Alignment Scores:

```
δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Qγ
                                                                                                                                                                                                                                                                                                                                                                                                                             S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-674-266A-181 (1-206) x US-09-643-597-282 (1-404)
                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 5, Application Patent No. 6171816
                                                                                                                                                                                                                                                                                                                                                                                                                           -08-916-576в-5
                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                          APPLICANT: YU, GUO-LIANG
APPLICANT: DILLON, PATRICK J.
APPLICANT: EBNER, REINHARD
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GC
STREET: 1100 NEW YORK AVENUE,
                                                                                                 CLASSIFICATION: 536 PRIOR APPLICATION DATA:
                                                                                                                                                  SOFTWARE: PatentIn Release #1.0, Version CURRENT APPLICATION DATA:
                                                         APPLICATION NUMBER: US 60/024,347 FILING DATE: 23-AUG-1996 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Мо
: :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                               358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           133 GluGlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLys 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                238
                                                                                                                                                                                                                                                STREET:
CITY: W
STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                58
                                                                                                                           FILING DATE:
                                                                                                                                                                                                                            COUNTRY: US
ZIP: 20005-3934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \omega
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16
                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13 ProHisProSerArgArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ProHisSerGìnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GlnThrLeuSerArgGlyTrpGlyAspGlnLeuIleTrpThrGlnThrTyrGluGluAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCGCATCCTANNCGCCGACTCACACACGACGC----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCACACAGTCAAGCTTTAAAGAAAGTGTTTGCTGAAAATAAAGAAATCCAGAAATTGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTATATAAATCCAAGACAAGCAACAAACCCTTGATGATTATTCATCACTTGGATGAGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LeuTyrLysSerLysThrSerAsnLysProLeuMetIleIleHisHisLeuAspGluCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CANACCCTCTCCAGAGGTTGGGGTGACCAACTCATCTGGACTCANACATATGAAGAAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GATACCACAGTCAAACCTGNAGCCAAAAAGGACACAAAGGACTCTCGACCCAAACTGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAGCAGTTTGTCCTCCTCAATCTGGTTTATGAAACAACTGACAAA 402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro
                                                                                                                                                                                                                                                              WASHINGTON
                                                STEFFE, ERIC K.
  (202) 371-2600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.3e-71
631.00
92.59%
92.59%
59.36%
                                                                                                                                                                                                                                                                                                                                                                                                               US/08916576B
                                                                                                                                       US/08/916,576B
                                                                                                                                                                                                                                                                         GOLDSTEIN & FOX, P.L.L.C
E, SUITE 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative:
                                                                                                                                                               #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGAGTNGCCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                57
                                                                                                                                                                                                                                                                                                                                                                                                                                    Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred.
                                                                                      RESULT 11
                                                                                                               В
                                                                                                                                    δÕ
                                                                                                                                                              В
                                                                                                                                                                                    δÃ
                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                              Вb
                                                                                                                                                                                                                                                                                  Qγ
                                                                                                                                                                                                                                                                                                             DЬ
                                                                                                                                                                                                                                                                                                                                   δõ
                                                                                                                                                                                                                                                                                                                                                              В
                                                                                                                                                                                                                                                                                                                                                                                   Qy
                                                                                                                                                                                                                                                                                                                                                                                                               DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                             346
                                                                                                               526
                                                                                                                                                              466
                                                                                                                                                                                                               406
                                                                                                                                                                                                                                      160
                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                               226
                                                                                                                                                                                                                                                                                                                                                                                     101
                                                                                                                                                                                                                                                                                                                                                                                                               166
                                                                                                                                       200
                                                                                                                                                                                        180
                                                                                                                                                                                                                                                                                      140
                                                                                                                                                                                                                                                                                                              286
                                                                                                                                                                                                                                                                                                                                                                                                                                                              124
                                                                                                                                                                                                                                                                                                                                                                                                                                      81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
```

```
US-09-674-266A-181 (1-206) x US-08-916-576B-5 (1-732)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Percent Similarity:
Best Local Similarity:
                                                                                                                             US-08-916-576B-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-916-576B-5
Sequence 36, Application Patent No. 6171816 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCATION: FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ",32 base pairs
",42 base pair
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NO . .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 41 LeuLeuLeuValAlaLeuSerTyrThrLeuAlaArgAspThrThrValLysProGlyAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOCATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuLeuAspAsnMetLýsLysAlaLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LysProLeuMetIleIleHisHisLeuAspGluCysProHisSerGlnAlaLeuLysLys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AspGlnLeuIleTrpThrGlnThrTyrGluGluAlaLeuTyrLysSerLysThrSerAsn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgGlyTrpGly
                                                                                                                                                                                                                                                                                                                                     LysLeuLeuLysThrGluLeu
                                                                                                                                                                                                                                                                                                                                                                                                               TTGTACACATATGAGCCTCGGGATTTACCCCTATTGATAGAAAACATGAAGAAAGCATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MetPheValAspProSerLeuThrValArgAlaAspIleThrGlyArgTyrSerAsnArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTCTTACTCGTCACAGTTTCTTCCAACCTTGCC-----ATTGCAATAAAA-----
                                                                                                                                                                                                                                                       AGACTTATTCAGTCAGAGCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATGTTTGTAGACCCTTCTTTAACAGTTAGAGCTGACATAGCTGGAAGATACTCTAACAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAGCCATTAATGGTTATTCATCACCTGGAGGATTGTCAATACTCTCAAGCACTAAAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GATGACATCACTTGGGTACAAACTTATGAAGAAGGTCTCTTTTATGCTCAAAAAAGTAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ------AAGGAAAAGGCCT------CCTCAGACACTCTCAAGAGGATGGGGA 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (202) 371-2540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mat_peptide
118..546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sig_peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     49..546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.65e-61
555.00
81.44%
64.67%
52.21%
                                                                                  US/08916576B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5:
                                                                                                                                                                                                                                                                                                                                     206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length:
Matches:
Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             732
108
28
19
12
```

YU, GUO-LIANG DILLON, PATRICK EBNER, REINHARD

<u>.</u>

525 199 465 345 139 120

285

100

225

80

60

123

APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45

CORRESPONDENCE ADDRESS

```
RESULT 12
                                                                                밁
                                                                                                          Š
                                                                                                                                      В
                                                                                                                                                             QY
                                                                                                                                                                                            В
                                                                                                                                                                                                                     ş
                                                                                                                                                                                                                                                                        δδ
                             멍
                                                    õ
                                                                                                                                                                                                                                                  ₽
                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                          US-09-674-266A-181 (1-206) x US-08-916-576B-36 (1-373)
                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; MOLECULE TYPE: US-08-916-576B-36
                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                               Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: 1488
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEPAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 373 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US 60/024,347
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn Release #1.0, Version CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/916,576B FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 536 PRIOR APPLICATION DATA:
                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
:.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE: DC
                                                                                  241
                                                                                                                                       181
                                                                                                                                                                                             121
                                                                                                            96
                                                                                                                                                                 76
                                                                                                                                                                                                                       56
                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY:
                                                                                                                                     ValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGlnThrLeu 75
                                                                                                                                                                                                                                                ProValSerAlaPheLeuLeuLeuValAlaLeuSerTyrThrLeuAlaArgAspThrThr 55
                                                                                                                                                                                                                                                                                                      erGlnAlaLeu---LysLysValPhe 122
||
                                                                                TCCAAGACANGGCAACAACCCTTGATGATTATTCATCACTTGGGATGAGTGCCCACACAC
                                                                                                                                                                                            GTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACTAAAACTGCCCCAGACCCTC
                             GTTCANGTTTTTAANGGAAAGTTTTT
                                                                                                          SerLysThr-SerAsnLysProLeuMetIleIleHisHisLeu-AspGluCysProHisS 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20005-3934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CDNA
                                                                                                                                                                                                                                                                                                                                                                                                  2.37e-53
487.50
91.82%
91.82%
45.86%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1488.0500001
                                                                                                                                                                                                                                                                                                                                                                                                                                           Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                     Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative:
                                                                                                                                                                                                                                                                                                                                                                                    373
101
0
6
3
1
                                                                                                                                                                                                                                                                                                      60
                                                                                                                                                                                            180
```

```
δò
                                                                                                                                                                                                                                        Q
                   Qy
                                                         망
                                                                                                                             Вb
                                                                                                                                                               Qy
                                                                                                                                                                                                     DЬ
                                                                                                                                                                                                                                                                                Вb
                                                                                                                                                                                                                                                                                                                  Ω
                                                                                                                                                                                                                                                                                                                                                                                                             Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-916-576B-9
                                                                                                                                                                                                                                                                                                                                                      US-09-674-266A-181 (1-206) x US-08-916-576B-9 (1-489)
                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-08-916-576B-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 9, Application US/08916576B Patent No. 6171816 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (202) 371-2540 INFORMATION FOR SEQ ID NO: 9: SEQUENCE CHARACTERISTICS: LENGTH: 489 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 6:
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: CETTERS FOR A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: (202) 371-2600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: EBNER, REINHARD
APPLICANT: ENDRESS, GREGORY A.
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX,
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE:
                                                         166
                                                                                                                               106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STATE: I
                    90
                                                                                         71
                                                                                                                                                                 51
                                                                                                                                                                                                       46
                                                                                                                                                                                                                        31 AlaMetGluLysIleProValSerAlaPheLeuLeuLeuValAlaLeuSerTyrThrLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: STEFFE, ERIC K. REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, STREET: 1100 NEW YORK AVENUE, SUITE 600
                                                                                                                                                                                                                                                                                                 11 SerGlyProHisProSerArgArgLeuThrGlnGlyArgTrpValArgLysSerArgVal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: WASHINGTON
                                                                                                                                                                                                                                                                                4 TCGGCANAGGATCCTAGCCGCCGACTCACACAAGGC-----AGAGTT
                                                                          LeuProGlnThrLeuSerArgGlyTrpGlyAspGlnLeu-IleTrpThrGlnThrTyrGl 90
uGluAla-LeuTyr-LysSerLysThrSerAsnLysProLeuMetIleIleHisHisLeu
                                                                                                                                                  AlaArgAspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLys
                                                                                                                             GCCAGAGATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTTTCGACCCAAA 165
                                                                                                                                                                                                     GCCATGGAGAAAATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTG
                                                       CTGCCCCAGACCCTCTCCAGAGGTTGGGGGTGACCAACTTCATCTGGACTCAGACATATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20005-3934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    YU, GUO-LIANG
DILLON, PATRICK
EBNER, REINHARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            single
                                                                                                                                                                                                                                                                                                                                                                                                        1.82e-49
458.50
70.66%
70.06%
43.13%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PATRICK J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US/08/916,576B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          36,688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   60/024,347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1488.0500001
                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ဂ
                                                                                                                                                                 70
                                                                                                                                                                                                     105
                                                                                                                                                                                                                                        50
                                                                                                                                                                                                                                                                                45
                                                                                                                                                                                                                                                                                                                  30
```

```
Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 13
US-08-916-576B-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             뮻
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ДЬ
                                                                                                                  Alignment Scores: Pred. No.:
                                                                                                                                                                       US-08-916-576B-10
US-09-674-266A-181 (1-206) x US-08-916-576B-10 (1-506)
                                     DB
                                                                                                  Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 10, Application US/08916576B Patent No. 6171816
                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/024,347
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REGISTRATION NUMBER: 1488.0500001
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                       TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: US
ZIP: 20005-9934

COMPUTER READMBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: Patentin RC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: YU, GUO-LIANG
APPLICANT: DILLON, PATRICK J.
APPLICANT: EBNER, REINHARD
APPLICANT: EENDERS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
                                                                                                                                                                                    TOPOLOGY: 1
MOLECULE TYPE:
                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 506 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          451 TGGCCCC 457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              331 GGAAATTAANGAANTCCGGNAATTGGGNNGAGCAGTTTGTNCCCCCNTNAATTTGGGTTTT 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                391 GGAAACAATGGGCAAACACCTTTTTTGTTGNTGGNCNATTTTTCCCCCGGNTTTTTTTT 450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           162 lAspPro 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: WASHINGTON
STATE: DC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                    STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rGluThrThrAspLysHisLeuSerProAspGlyGlnTyrValProArgIleMetPheVa 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGAAGCTCTTATATNAAATCCAAGACAAGCAACAAACCCTTGATGATTATTCATCACTTG
                                                                                                                                                                                                       linear
                                               5.63e-39
376.50
90.00%
87.78%
35.42%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US/08/916,576B
                                                 Conservative: Mismatches: Indels:
                                                                                                  Length:
Matches:
                                 506
79
6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     285
```

Alignme Pred. N Score: Percent Best Lo Query M	RESUUS-00 US-00 US	Оy	Qy Db	Оу Оу Оу Оу
a cas	SSULT 14  SOURCE TYPE  APPLICANT: VU  APPLICANT: EB  APPLICANT: US  STREET: 110  COUNTRY: WASHI  STATE: DC  COMPUTER READA,  MEDIUM TYPE:  COMPUTER: II  OPERATING SY.  SOFTWARE: P  CURRENT APPLICATION  APPLICATION  FILING DATE:  CLASSIFICATION  FILING DATE:  CLASSIFICATION  REFERENCE DO  TELEFAX: (2  INFORMATION FOR  SEQUENCE CHARA  LENGTH: 158  TYPE: nucle  STRANDEDNESS  TOPOLOGY: 1  MOLECULE TYPE:  S-08-916-576B-37	176 254	156 194	97 14 117 74 137
Scores: : imilarity: l Similari ch:	P 14 P 1916-576B-37 Jence 37, Applient No. 6171816 SURRAL INFORMAT: ENTAPPLICANT: DII APPLICANT: DII APPLICANT: DII APPLICANT: DII APPLICANT: DII APPLICANT: ENI BITTLE OF INVEN MUMBER OF SEQUI CITY: WASHI STATE: DC COMPUTER READAI MEDIUM TYPE: APPLICATION I FILING DATE: CLASSIFICATION I FILING DATE: CLASSIFICATION I FILING DATE: CLASSIFICATION I FILING DATE: CLASSIFICATION I REGIFFARTION I REGIFFARTION I REGIFFARTION I REGIFFARTION FOR I STEPHONE: TELEFAX: (2) FORMATION FOR I ENGREY AGENT APPLICATION FOR I ENGREY AGENT APPLICATION FOR I ELEGTH: 158 TYPE: nucle STRANDEDNESS TOPOLOGY: 1.158 MOLECULE TYPE: MOLECULE T	Tyrs ::: TATTTC	lProAr        NCCCAG	LeuLeuAsn
ty: arity:	POR COCCHO M ZHO ZDUSTE EW ZOS EHOZE HOF	TyrSerAsnArgLeuTyrAlaTyr 	gIleMe  :::   GGTTAT	LysThrSerAsnLysProLeuMetIle
	ICATION US/08  1 ON: 1 ON: 2 OUC-LIANG LLON, PATRICK NER, REINHARD DRESS, GREGOR TION: NOVEL ENCES: 45 ADDRESS, GREGOR TION: 0 NEW YORK AV NGTON  13934 BLE FORM: F10PPY disk F10PPY disk F10PPY disk F10PPY disk F10PPY disk M PC Compati STEM: FC-DOS TION DATA: NUMBER: US/0 ON: 536 INFORMATION: E, ERIC K. 1 NUMBER: ION INFORMATION: E, ERIC K. 1 NUMBER: ION INFORMATION: E, ERIC K. 1 NUMBER: ION INFORMATION: E, ERIC K. 1 NUMBER: ION INFORMATION: E, ERIC K. 1 NUMBER: ION INFORMATION: E, ERIC K. 1 NUMBER: ION INFORMATION: E, ERIC K. 1 NUMBER: ION INFORMATION: E, ERIC K. 1 NUMBER: ION INFORMATION: E, ERIC K. 1 NUMBER: ION INFORMATION: E, ERIC K. 1 NUMBER: ION INFORMATION: E, ERIC K. 1 NUMBER: ION INFORMATION: E, ERIC K. 1 NUMBER: ION INFORMATION: E, ERIC K. 23-10-25-40 O22) 371-25-40 O22) 371-25-40 O22) 371-25-40 O22) 371-25-40 O22) 371-25-40 O23 GERESTICS: DASE GERESTICS: DASE GREGOR  CERTIFICAL  COLDAN	rgLeui	tPheVa	Lysprc         AAACCC                GTGTTJ 
5.26e-24 253.00 100.00% 100.00%	O O O O O O O O O O O O O O O O O O O	Yrala:        ATGCT:	I ASPPI              TGACC	DLeuMet
	:: 4: 65	Fyr 183      AC 279	ProArgIleMetPheValAspProSerLeu-        :::	HILLETTE  BATTATTE  JASTLYSE  LILETT  JAATAAA  CThr-AS  LILLII  LILLII  AACTGGA
Length: Matches: Conservat Mismatche Indels:		φ ω	eu-Thr         GGACA	eHisHis        TCATCAN  TCATCAN                                     
: ss: vative ches:	FACTORS  00  #1.		ValArg       GTTAGA	LysThrSerAsnLysProLeuMetIleIleHisHisLeuAspG
158 51 0 0	30 · .T.		AlaAsp         GCCGAT	pglucysPr            rgagTgCcc  sLeuAlaGl            ATTGGCAGA             cTcCTGATG
<b></b>	r.c.		IleThr        ATCACT	SProHisSerG
			ThrValargAlaAspIleThrGlyArg-                  ACAGTTAGAGCCGATATCACTGGGAGGA	LysThrSerAsnLysProLeuMetIleIleIleHisHisLeuAspGluCysProHisSerGln
-			j- 175 aa 253	Hn 116                     

```
Ş
                                               В
                                                                         õ
                                                                                                                                                Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                       US-09-674-266A-181 (1-206) x US-09-030-607-209 (1-159)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 15
US-09-030-607-209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB:
                                                                                                                                                                                                score:
                                                                                                                                                                                                                          Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-674-266A-181 (1-206) x US-08-916-576B-37
                                                                                                                                                                                                              Pred. No.:
                                                                                                                                                                                                                                                         us-09-030-607-209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 209, Application US/09030607 Patent No. 6262245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Vei
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/030,607
FILING DATE: 25-FEB-198
CCLASSIFICATION:
                                                                                                                                                                                                                                                                                                                        TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 159 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 2101
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
                                                                                                                                                                                                                                                                       MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Xu, Jiangchun APPLICANT: Dillon, Davin C. TITLE OF INVENTION: COMPOUN NUMBER OF SEQUENCES: 224
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       126
                  45
                                           TOPOLOGY:
                                                                                                                                                                                                                                                                                             TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Seattle
STATE: WA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              35 IleProValSerAlaPheLeuLeuLeuValAlaLeuSerTyrThrLeuAlaArgAspThr 54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
AlaLeuSerTyrThrLeuAlaArgAspThrThrValLysProGlyAlaLysLysAspThr 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ThrValLysProGlyAlaLysLysAspThrLys 65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGAGATACC 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACAGTCAAACCTGGAGCCAAAAAGGACACAAAG 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        E: SEED and BERRY LLP
6300 Columbia Center, 701 Fifth Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                USA
                                                                                                                                                                                                                                                                                                                                                                          682-6031
                                                                                                                                         7.13e-24
252.00
100.00%
100.00%
23.71%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPOUNDS
: 224
                                                                                                                                                                                                                                                                                                                                                                                                                      210121.427C3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS
                                                                                                                                    Indels:
Gaps:
                                                                                                                                                                 Conservative: Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (1-158)
                                                                                                                                  159
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FO
```

```
Qy
                                            B
              65
                                           63
LysAspSerArgProLysLeuProGlnThrLeuSer 76
                                           GCCCTCTCCTACACTCTGGCCAGAGATACCACAGTCAAACCTGGAGCCAAAAAGGACACA 122
```

Search completed: March 13, 2003, 19:52:46

Db

123 AAGGACTCTCGACCCAAACTGCCCCAGACCCTCTCC 158

Job time : 43 secs

```
-Q=/cgn2_1/USPTO_Spool/US09674266/runat_06032003_154833_22481/app_query.fasta_1.391
-DB=-Published_Applications_NA -QFMT=fastap -SUFFIX=ropb -MINMATCH=0.1
-LOOPELT=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100
-THR_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=200000000 -USER-US09674266_@CGN_1_172_@runat_06032003_154833_22481
-NCPU=6 -LCPU=3 -NO_XLPXY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -MAIT -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Command line parameters:
-MODEL=frame+_p2n.model -DEV=xlh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OM protein - nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Minimum DB
Maximum DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Run on:
                                                                                                                                         Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Database :
                                                                                                                      ö
                                                                                                                                                                                                                                     score greater
and is derived
                                                                                                                   Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           seq length:
seq length:
                                                                                                                                                                                                                                  greater than
derived by a
                                                                                                  Match Length DB
                                                                                                                                                                                                                                  is the number of results predicted by chance to have a ater than or equal to the score of the result being printed, rived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 RLSCAGTLSGSGPHPSRRLT.....DTALLLDNMKKALKLLKTEL 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-674-266A-181
1063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         March 13, 2003, 19:43:56; Search time 100 Seconds (without alignments) 1445.842 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               501302 segs, 350932545 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Xgapop 10.0 , Xgapext
Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BLOSUM62
                                                                                                                                                                                                                                                                                                                                 10:
11:
12:
13:
14:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Published_Applications_NA:*
    96.4
96.4
93.2
93.2
                                                                                                                                            Query
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                  /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
/cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
/cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
/cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
/cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
/cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
                                                                                                                                                                                                                                                                                                                              /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000000000
    1860
1860
875
875
    9
10
9
  US-09-981-353-91

0 US-09-895-652-4

US-10-025-380-1098

US-10-078-337-1
                                                                                                                      ij
                                                                                                                                                                                         SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7.0
Sequence 91, Appl
Sequence 4, Appli
Sequence 1098, Ap
Sequence 1, Appli
                                                                                                                 Description
                                                                                                                                                                                                                                                                                                                         APPLICANT: Lasek, Amy W.
APPLICANT: Jones, David A.
TITLE OF INVENTION: GENES EXPRESSED IN COLOR
FILE REFERENCE: PA-0038 US
CURRENT APPLICATION NUMBER: US/09/981,353
CURRENT FILING DATE: 2001-10-11
NUMBER OF SEQ ID NOS: 194
SOFTWARE: PERL Program
SEQ ID NO 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Sequence 91, Application US/09981353
; Patent No. US20020160382A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 1
US-09-981-353-91
                                                                        Score:
                                                                                              Pred
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0 0 0 0 0 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0000
```

7 A A A A A A A A A A A A A A A A A A A	11098765 111098765
702 702 702 702 702 686 683 683 683 683 683 683 683 683 683	- φοδοδου4-4μουν · · · Ζ
00000000000000000000000000000000000000	WH00000004444000000000
55555555555555555555555555555555555555	554 554 554 554 554 554 552 552 7793 7793 7793
00111000110000000000000000000000000000	100 100 100 100 100 100 100 100 100 100
-10 - 25 - 380 - 1 -10 - 25 - 380 - 1 -10 - 25 - 380 - 1 -10 - 046 - 935 - 1 -10 - 046 - 935 - 1 -10 - 046 - 935 - 1 -10 - 046 - 935 - 1 -10 - 025 - 380 - 3 -10 - 025 - 380 - 3 -10 - 025 - 380 - 3 -10 - 078 - 337 - 3 -10 - 078 - 337 - 3 -10 - 078 - 337 - 7 -10 - 046 - 935 - 7 -10 - 046 - 935 - 2 -10 - 046 - 935 - 2	US-09-922-217-1098  US-09-998-598-64  US-09-998-598-63  US-10-046-935-1635  US-10-046-935-1331  US-10-046-935-1481  US-09-878-178-1331  US-09-878-178-1481  US-09-878-178-1200  US-09-919-580-786  US-10-046-935-2200  US-09-919-580-786  US-10-046-935-2700  US-09-878-178-278  US-09-878-778-78  US-09-850-716A-78  US-09-850-716A-78  US-09-850-716A-78  US-09-850-716A-78  US-10-230-163-73  US-10-230-163-73  US-10-230-163-73
Sequence 183, Apple Sequence 183, Apple Sequence 183, Apple Sequence 1433, Apple Sequence 1363, Apple Sequence 1363, Apple Sequence 32, Apple Sequence 32, Apple Sequence 32, Apple Sequence 32, Apple Sequence 282, Apple Sequence 282, Apple Sequence 282, Apple Sequence 282, Apple Sequence 2831, Apple Sequence 2131, Apple Seq	Sequence 109 Sequence 1635 equence 1635 equence 1331 equence 1331 equence 1481 equence 1481 equence 78 Sequence 73 equence 73 equence 73

## ALIGNMENTS

EXPRESSED IN COLON CANCER

```
; NAME/KEY: misc_feature ; OTHER INFORMATION: Inc) US-09-981-353-91
           Percent Similarity:
Best Local Similarity:
                                                             Alignment
                                                                                                                              FEATURE:
                                                                                                                                         ORGANISM: Homo sapiens
                                                                                                                                                      TYPE: DNA
                                                                                                                                                                LENGTH: 1860
                                                  No . .
                                                              Scores
                                                                                                     Incyte
1.52e-121
1025.00
98.54%
98.54%
96.43%
                                                                                                     GI
                                                                                                     No.
                                                                                                   US20020160382A1 343502.
                       Conservative:
             Mismatches:
                                      Matches:
```

0 - 0

40 197

```
; LENGTH: 1860
; TYPE: DNA
; ORGANISM: HOMO $
US-09-895-652-4
  Score:
          Alignment Scores
Pred. No.:
                                                                                                                                                                                                               RESULT 2
US-09-895-652-4
                                                                                                                                                                                                                                                        δÃ
                                                                                                                                                                                                                                                                            Ъ
                                                                                                                                                                                                                                                                                            δ
                                                                                                                                                                                                                                                                                                                              Ş
                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                         DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                        ρ
                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    망
                                                                                                                                                                                                                                         Ъ
                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-674-266A-181
                                                                                            GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Macina, Roberta
APPLICANT: Pillai, Rageswari
APPLICANT: Pillai, Rageswari
TITLE OF INVENTION: Method of Diagnosing, Monitoring, Staging,
TITLE OF INVENTION: Treating Colon Cancer
FILE REFERENCE: DEX-0211
CURRENT APPLICATION NUMBER: US/09/895,652
CURRENT FILING DATE: 2001-06-28
PRIOR APPLICATION NUMBER: 60/214,515
PRIOR FILING DATE: 2000-06-28
                                                                        SOFTWARE: PatentIn Ver. SEQ ID NO 4
                                                                                                                                                                                            Sequence 4, Application US/09895652 Patent No. US20020081640A1
                                                                                           NUMBER OF SEQ ID NOS: 39
                                                                                                                                                                                                                                                                              678
                                                                                                                                                                                                                                                                                                                618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   258
                                                                                                                                                                                                                                         738
                                                                                                                                                                                                                                                            201
                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                  161
                                                                                                                                                                                                                                                                                                                                                    558
                                                                                                                                                                                                                                                                                                                                                                    141
                                                                                                                                                                                                                                                                                                                                                                                      498
                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                         438
                                                                                                                                                                                                                                                                                                                                                                                                                                           101
                                                                                                                                                                                                                                                                                                                                                                                                                                                              378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ب
                                                                                                                                                                                                                                         PheValAspProSerLeuThrValArgAlaAspIleThrGlyArgTyrSerAsnArgLeu
                                                                                                                                                                                                                                                                                                                                                LysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgGlyTrpGly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LeuLeuLeuValAlaLeuSerTyrThrLeuAlaArgAspThrThrValLysProGlyAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlnGlyArgTrpValArgLysSerArgValAlaMetGluLysIleProValSerAlaPhe
                                                                                                                                                                                                                                                                                                               TTTGTTGACCCATCTCTGACAGTTAGAGCCGATATCACTGGAAGATATTCAAATCGTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAAAAGGACACAAAGGACTCTCGACCCCAAACTGCCCCAGACCCTCTCCAGAGGTTGGGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGAGATACCACAGTCAAACCTGGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAAGGCAGGTGGGTGAGGAAATCCAGAGTTGCCATGGAGAAAATTCCAGTGTCAGCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (1-206)
  1.52e-121
1025.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             x US-09-981-353-91
 Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (1-1860)
 1860
203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                         Imaging
                                                                                                                                                                                                                                                                                                                                                                   160
                                                                                                                                                                                                                                                                                                                                                                                                     140
                                                                                                                                                                                                                                                                                                                                                                                                                                         120
                                                                                                                                                                                                                                                                                                                                                                                                                                                            437
                                                                                                                                                                                                                                                                                             200
                                                                                                                                                                                                                                                                                                               677
                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                  617
                                                                                                                                                                                                                                                                                                                                                                                     557
                                                                                                                                                                                                                                                                                                                                                                                                                        497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       40
                                                                                                                                                                                                                                                                Qγ
                                                                                                                                                                                           RESULT
                                                                                                                                                                                                             В
                                                                                                                                                                                                                            γ
                                                                                                                                                                                                                                                Вb
                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                   Qy
                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                       δÃ
                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                         ρy
                                                                                                                                                                                                                                                                                                                                                                                             Ъ
                                                                                                                                                                                                                                                                                                                                                                                                            20
                                                                                                                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                                                                               δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Вр
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ρy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 us-09-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                  US-10-025-380-1098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query
                                                                                                                                             Sequence 1098, Application US/10025380 Publication No. US/20020182191A1 GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
                                   APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
TITLE OF I
                  APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -674-266A-181 (1-206) x US-09-895-652-4 (1-1860)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Match:
                                                                                                                                                                                                             738
                                                                                                                                                                                                                                                 678
                                                                                                                                                                                                                                                                                                                       558
                                                                                                                                                                                                                                                                                                                                                           498
                                                                                                                                                                                                                               201
                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                     161
                                                                                                                                                                                                                                                                                                                                         141
                                                                                                                                                                                                                                                                                                                                                                           121
                                                                                                                                                                                                                                                                                                                                                                                                               101
                                                                                                                                                                                                                                                                                                                                                                                                                                 378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              139 AGACTCAGCTGTGCTGGCACACTCAGAAGCTT-GGACCGCATCCTAGCCGCCGACTCACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 ArgLeuSerCysAlaGlyThrLeuSerGlySerGlyProHisProSerArgArgLeuThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GlnGlyArgTrpValArgLysSerArgValAlaMetGluLysIleProValSerAlaPhe
                                                                                                                                                                                                                                               TTGCTGAAGACTGAATTG
                                                                                                                                                                                                                              LeuLeuLysThrGluLeu
                                                                                                                                                                                                                                                                                 : Carter,
               Meagher, Madeleine J
Stolk, John A.
Stolk, John A.
Wang, Tongtong
Jiang, Yuqiu
Smith, Carole L.
King, Gordon E.
Wang, Aijun
Clapper, Jonathan D.
Skeiky, Yasir A. W.
Fanger, Gary R.
                                                                                                                   Secrist, Heather
Benson, Darin R.
                                                                                                                                     Lodes, Michael
Darrick
COMPOUNDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98.54%
98.54%
96.43%
10
FOR
                                                                                                          Joy
IMMUNOTHERAPY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative:
Mismatches:
Indels:
Gaps:
```

160

737 200 677 180 617 497

120 437 100 377 80 317 60

140

AND

DIAGNOSIS

٠,

```
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; ORGANISM: Homo sapiens US-10-025-380-1098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-674-266A-181 (1-206) x US-10-025-380-1098 (1-875)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score
                                                                                                                        US-10-078-337-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE FILE REFERENCE: 210121.471C14
CURRENT APPLICATION NUMBER: US/10/025,380
CURRENT FILING DATE: 2001-12-19
NUMBER OF SEQ ID NOS: 1129
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1098
LENGTH: 875
                                                                                          Sequence 1, Application US/10078337
Publication No. US20030023068A1
                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NO . .
                                                                                                                                                                 554
                                                                                                                                                                                             193
                                                                                                                                                                                                                         494
                                                                                                                                                                                                                                                    173
                                                                                                                                                                                                                                                                                434
                                                                                                                                                                                                                                                                                                          153
                                                                                                                                                                                                                                                                                                                                      374
                                                                                                                                                                                                                                                                                                                                                                  133
                                                                                                                                                                                                                                                                                                                                                                                             314
                                                                                                                                                                                                                                                                                                                                                                                                                         113
                                                                                                                                                                                                                                                                                                                                                                                                                                                   254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13 ProHisProSerArgArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             93
                                                                   APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                AspAsnMetLysLysAlaLeuLysLeuLeuLysThrGluLeu 206
                                                                                                                                                                                                                                                                                                                                                GluGlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAsp
                                                                                                                                                                                                                                                                                                                                                                                         GAGAAAATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GluLysIleProValSerAlaPheLeuLeuLeuValAlaLeuSerTyrThrLeuAlaArg
                                                                                                                                                                                                                                      ThrGlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuLeu
                                                                                                                                                                                                                                                                                          GlyGlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAAACTGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCGATTCCTAGCCGCCGACTCACACAAGGCAGGTGGGGTGAGGAAATCCAGAGTTGCCATG
                                                                                                                                                                 GACAACATGAAGAAAGCTCTCAAGTTGCTGAAGACTGAATTG
                                                                                                                                                                                                                      ACTGGAAGATATTCAAATCGTCTCTATGCTTACGAACCTGCAGATACAGCTCTGTTGCTT
                                                                                                                                                                                                                                                                               GGCCAGTATGTCCCCAGGATTATGTTTGTTGACCCATCTCTGACAGTTAGAGCCGATATC
                                                                                                                                                                                                                                                                                                                                      GAGCAGTTTGTCCTCCAATCTGGTTTATGAAACAACTGACAAACACCTTTCTCCTGAT
          OF INVENTION: NOVEL HUMAN
SEQUENCES:
                                     YU, GUO-LIANG
DILLON, PATRICK J.
EBNER, REINHARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.1e-117
991.00
99.48%
99.48%
93.23%
9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length: Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative:
             GROWTH
                                                                                                                                                                 595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0010
                                                                                                                                                                                                                                                                               493
                                                                                                                                                                                                                         553
                                                                                                                                                                                                                                                   192
                                                                                                                                                                                                                                                                                                         172
                                                                                                                                                                                                                                                                                                                                      433
                                                                                                                                                                                                                                                                                                                                                                  152
                                                                                                                                                                                                                                                                                                                                                                                             373
                                                                                                                                                                                                                                                                                                                                                                                                                      132
                                                                                                                                                                                                                                                                                                                                                                                                                                                  313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         253
                                                                                                                    Qy
                                                                                                                                                                           QΥ
                                                                                                                                                                                                                                 20
          õ
                                     B
                                                              QΥ
                                                                                                                                                 DЪ
                                                                                           Дb
                                                                                                                                                                                                         Вb
```

Ъ

δÃ

밁 δÃ В γQ

δÃ

밁

δĀ В οy 망 δð 밁 δÃ

Вþ

В Qy δÃ

DЪ

```
LOCATION: 71.130
SEQUENCE DESCRIPTION: SEQ ID
US-10-078-337-1
                                                                                                                                                                                                                                                                                                                                                      Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred.
                                                                                                                                                                                                                                                                                                                     US-09-674-266A-181 (1-206) x US-10-078-337-1 (1-875)
                                                                                                                                                                                                                                                                                                                                                                                     Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                        Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE: (202) 371-2600
TELEPAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                           N
O
                                                                                                                    134
                                                    194
                                                                                                                                                   53
                                                                                                                                                                                                                                                                    13 ProHisProSerArgArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMet
                   93
                                                                                                                                                                                      74
                                                                                                                                                                                                                   \omega
                                                                                                                                                                                                                                                    14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 20005-3934

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0500001
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSE: STERNE, KESSLER, GOLDSTEIN &
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 08/916,576 FILING DATE: <Unknown> ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: PatentIn Release #1.0, Version CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: cDNA FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                  AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro
                                                                                                                                                                                                  GluLysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArg
LeuTyrLysSerLysThrSerAsnLysProLeuMetI1eI1eHisHisLeuAspGluCys
                                                                                                                    GATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAAACTGCCC
                                                                                                                                                                                    GAGAAAATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGA
                                                                                                                                                                                                                                                    CCGATTCCTAGCCGCCGACTCACAAGGCAGGTGGGTGAGGAAATCCAGAGTTGCCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 875 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/10/078,337 FILING DATE: 21-Feb-2002 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                  1.1e-117
991.00
99.48%
99.48%
93.23%
9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CDS
71..595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mat_peptide
131..595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NO:
                                                                                                                                                                                                                                                                                                                                                      Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                        Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                     Conservative: Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FOX,
                                                                                                                                                                                                                                                                                                                                                                                                                        875
193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #1.30
                                                    253
                                                                                   92
                                                                                                                    193
                                                                                                                                                 72
                                                                                                                                                                                    133
                                                                                                                                                                                                                   52
                                                                                                                                                                                                                                                   73
                                                                                                                                                                                                                                                                                     32
```

```
APPLICANT: Wang, Aljun
APPLICANT: Clapper, Jonathan D.
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.471C13
CURRENT APPLICATION NUMBER: US/09/922,217
CURRENT FILING DATE: 2001-08-03
NUMBER OF SEQ ID NOS: 1124
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1098
LENGTH: 875
TYPE: DNA
ORGANISM: Homo sapiens
US-09-922-217-1098
 В
                       δ
                                                  Ъ
                                                                         δÃ
                                                                                                   Ъ
                                                                                                                           δ
                                                                                                                                                                             Query
DB:
                                                                                                                                                US-09-674-266A-181 (1-206) x US-09-922-217-1098 (1-875)
                                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 5
US-09-922-217-1098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Db
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ρ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ş
                                                                                                                                                                                                                               Score:
                                                                                                                                                                                                                                        Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: XU, Jiang
APPLICANT: Lodes, Mi
APPLICANT: Benson, I
APPLICANT: Benson, I
APPLICANT: Weagher,
APPLICANT: Scolk, Jc
APPLICANT: Jiang, Ton
APPLICANT: Jiang, Ton
APPLICANT: Smith, Ca
APPLICANT: Smith, Ca
APPLICANT: King, Gor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Db
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1098, Application Patent No. US20020076414A1
  134
                                                                                                                                                                                         Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                133
                         53
                                                                           ^{\omega}
                                                                                              113
            AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro 72
                                             GATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAAACTGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GACAACATGAAGAAAGCTCTCAAGTTGCTGAAGACTGAATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ThrGlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AspAsnMetLysLysAlaLeuLysLeuLeuLysThrGluLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACTGGAAGATATTCAAATCGTCTCTATGCTTACGAACCTGCAGATACAGCTCTGTTGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTATATAAATCCAAGACAAGCAACAAACCCTTGATGATTATTCATCACTTGGATGAGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Stolk, John A.
Wang, Tongtong
Jiang, Yuqiu
Smith, Carole Lynn
King, Gordon E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Benson, Darin R.
Meagher, Madeleine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Secrist, Heather
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Lodes, Michael J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Jiangchun
                                                                                                                                                                           1.1e-117
991.00
99.48%
99.48%
93.23%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US/09922217
                                                                                                                                                                                      Conservative: Mismatches: Indels:
                                                                                                                                                                           Gaps:
                                                                                                                                                                                                                           Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            206
                                                                                                                                                                         875
193
0
1
0
0
                                                                       52
                                                133
                                                                                                73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           152
```

```
B
                     Qy
                                                             Q
                                                                                      망
                                           В
                                                                                                          οy
                                                                                                                                                    Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Qy
                                                                                                                             US-09-674-266A-181 (1-206) x US-09-998-598-64 (1-564)
                                                                                                                                                                                               Score:
                                                                                                                                                                                                         Pred. No.:
                                                                                                                                                                                                                  Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                       Best Local Similarity:
                                                                                                                                                                                  Percent Similarity:
                                                                                                                                                                                                                                         US-09-998-598-64
                                                                                                                                                                                                                                                                                                                                                                                                              ; Patent No. US20020150922A1 ; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-998-598-64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DЪ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Qy
                                                                                                                                                                                                                                                SEQ ID NO 64
LENGTH: 564
TYPE: DNA
ORGANISM: Ho
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q
                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/998,598
CURRENT FILING DATE: 2001-11-16
NUMBER OF SEO ID NOS: 2606
SOFTWARE: Corixa Invention Disclosure Dat
                                                                                                                                                                                                                                                                                                                                   APPLICANT: Chenault, Ruth A. APPLICANT: Meagher, Maddelein Joy TITLE OF INVENTION: COMPOSITIONS; TITLE OF INVENTION: DIAGNOSIS OF FILE REFERENCE: 210121.561
                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Stolk, APPLICANT: Xu, J
   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            254
                      53
                                           61
                                                                \omega
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     194
                                                                                                           13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          73
                                                                                 GluLysIleProValSerAlaPheLeuLeuLeuValAlaLeuSerTyrThrLeuAlaArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GlnThrLeuSerArgGlyTrpGlyAspGlnLeuIleTrpThrGlnThrTyrGluGluAla
GATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAAACTGCCC
           ASpThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GlyGlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GAGAAAATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GluGlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGCCAGTATGTCCCCAGGATTATGTTTGTTGACCCATCTCTGACAGTTAGAGCCGATATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GAGCAGTTTGTCCTCCTCAATCTGGTTTATGAAACAACTGACAAACACCTTTCTCCTGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                   64,
                                                                                                                                                                                                                                                   Homo
                                                                                                                                                                                                                                                                                                                                                                                      Xu, Jiangchun
                                                                                                                                                                                                                                                                                                                                                                                                                                   Application
                                                                                                                                                                                                                                                  sapiens
                                                                                                                                                                                                                                                                                                                                                                                                   John
                                                                                                                                                    3.72e-115
969.00
99.47%
99.47%
99.47%
91.16%
                                                                                                                                                                                                                                                                                                                                                                                                                                   us/09998598
                                                                                                                                                                                                                                                                                                                                               Q.
                                                                                                                                                                                                                                                                                                                                              AND METHODS FOR THE THERAPY AND F COLON CANCER
                                                                                                                                                                                 Length:
Matches:
Conservative:
                                                                                                                                                            Mismatches:
Indels:
                                                                                                                                                                                                                                                                                           Database
                                                                                                                                                  564
187
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                206
                                                              52
                     72
                                                                                  60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   253
```

1,

```
; SEQ ID NO 5; LENGTH: 888; TYPE: DNA; ORGANISM: Homo sUS-09-895-652-5
                                                                                                                                                             Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δõ
Š
                     В
                                  δ
                                                            В
                                                                          γQ
                                                                                                 В
                                                                                                                  γ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ъ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Вþ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ъ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      õ
                                                                                                                                          US-09-674-266A-181 (1-206) x US-09-895-652-5 (1-888)
                                                                                                                                                                                                                         Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-895-652-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT
                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                            APPLICANT: Macina, Roberta
APPLICANT: Pillai, Rageswari
APPLICANT: Pillai, Rageswari
TITLE OF INVENTION: Method of Diagnosing, Monitoring, Staging, Imaging and
TITLE OF INVENTION: Treating Colon Cancer
FILE REFERENCE: DEX-0211
CURRENT APPLICATION NUMBER: US/09/895,652
CURRENT FILING DATE: 2001-06-28
PRIOR APPLICATION NUMBER: 60/214,515
PRIOR APPLICATION WIMBER: 60/214,515
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 39
NUMBER OF SEQ ID NOS: 39
SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 5, Application US Patent No. US20020081640A1
                                                                                                                                                                                                                No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                     121
 60
                                        41
                                                                                                    20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LeuTyrLysSerLysThrSerAsnLysProLeuMetIleIleHisHisLeuAspGluCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  aLysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgGlyTrpGl
                    TTGCTCCTTGTGGCCCTCTCCTACACTCTGGGCCCAGAGATACCACAGTCAAACCTGGAGC
                              LeuLeuLeuValAlaLeuSerTyrThrLeu-AlaArgAspThrThrValLysProGlyAl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTATATAAATCCAAGACAAGCAACAAACCCTTGATGATTATTCATCACTTGGATGAGTGC
                                                                                                                                                                                                                                                       sapiens
                                                                                                                                                            2.43e-114
965.00
95.17%
95.17%
90.78%
                                                                                                                                                                                                                                                                                                                                                                                                                                US/09895652
                                                                                                                                                            Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                       60
                                                            120
                                                                               40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                112
                    180
                                                                                                  78
                                                                                                                     20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       92
```

```
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo s
US-10-046-935-1635
                                                                                                                                                                                                                                                                                                    APPLICANT: Jiang, Yuqiu
APPLICANT: Harlocker, Susan L.
APPLICANT: Secrist, Heather
APPLICANT: Secrist, Heather
APPLICANT: Wang, Aljun
APPLICANT: Wang, Aljun
APPLICANT: Wang, Aljun
APPLICANT: Wang, Aljun
APPLICANT: Wang, Aljun
APPLICANT: AND DIAGNOSIS OF COLON CANCER
TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
FILE REFERENCE: 210121.527C1
CURRENT APPLICATION NUMBER: US/10/046,935
CURRENT EPLING DATE: 2002-01-15
NUMBER OF SEQ ID NOS: 2239
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       οy
 Ş
                         В
                                               Qγ
                                                                        В
                                                                                              QΥ
                                                                                                                       US-09-674-266A-181 (1-206) x US-10-046-935-1635
                                                                                                                                                 Query Match:
DB:
                                                                                                                                                                       Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                             Pred
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-046-935-1635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δÔ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δã
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δÕ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                Score:
                                                                                                                                                                                                                        Alignment Scores:
                                                                                                                                                                                                                                                                                              SEQ ID NO 1635
                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1635, Application Patent No. US20020156011A1
                                                                                                                                                                                                             NO...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
  58
                                                                       sLeuLeuLysThrGluLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               UTYTA1aTYTG1uProAlaAspThrAlaLeuLeuLeuAspAsnMetLysLysAlaLeuLy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheValLeuLeuAsnLe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tPheValAspProSerLeuThrValArgAlaAspIleThrGlyArgTyrSerAsnArgLe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             uValTyrGluThrThrAspLysHisLeuSerProAspGlyGlnTyrValProArgIleMe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArg
                         TCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGAGATACCACAGTCAAA
                                      SerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArgAspThrThrValLys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTTGCTGAAGACTGAATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTTTGTTGACCCATCTCTGACAGTTAGAGCCGATATCACTGGAAGATATTCAAACCGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGTTTATGAAACAACTGACAAACACCTTTCTCCTGATGGCCAGTATGTCCCCAGGATTAT
                                                                                                                                                                                                                                                          sapiens
                                                                                                                                                1.75e-114
964.00
99.47%
99.47%
99.69%
9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US/10046935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        206
                                                                                                                                              Conservative: Mismatches: Indels: Gaps:
                                                                                                                                                                                               Length:
Matches:
                                                                                                                         (1-590)
                                                                                                                                                                                                                                                                                                                                                                                 THE
                                                                                                                                              590
188
0
0
  77
                         122
                                                 57
                                                                        62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
```

```
RESULT 9
US-09-878-178-1635
; Sequence 1635, Applic;
; Patent No. US20020177
; GENERAL INFORMATION;
                                                                                                                                                                                                                                                               APPLICANT: Jiang, Yuqiu
APPLICANT: Harlocker, Susan L.
APPLICANT: Gecrist, Heather
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THE
TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
FILE REFERENCE: 210121.527
CURRENT APPLICATION NUMBER: US/09/878,178
CURRENT FILING DATE: 2001-06-08
NUMBER OF SEQ ID NOS: 2237
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1635
LENGTH: 590
                                                                                                                                                                                                                                      ; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo :
US-09-878-178-1635
                                                                                                             Q
                                                                                                                                                                                              Pred.
Score:
- B
                          Š
                                                  В
                                                                    Ş
                                                                                          В
                                                                                                                                                      Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Вb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  οy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Вр
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                 US-09-674-266A-181 (1-206) x US-09-878-178-1635 (1-590)
                                                                                                                                                                                                                    Alignment Scores:
                                                                                                                                                                                                          .
o
          123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            123
                             58
                                                  63
                                                                     38
                                                                                                              18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       78
                                                                                        ArgLeuThrGlnGlyArgTrpValArgLySSerArgValAlaMetGluLySIleProVal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArgAspThrThrValLys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                AlaLeuLysLeuLeuLysThrGluLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuLeuAspAsnMetLysLys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGAGATACCACAGTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCTCTCAAGTTGCTGAAGACTGAATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ThrSerAsnLysProLeuMetIleIleHisHisLeuAspGluCysProHisSerGlnAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GlyTrpGlyAspGlnLeuIleTrpThrGlnThrTyrGluGluAlaLeuTyrLysSerLys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AATCGTCTCTATGCTTACGAACCTGCAGATACAGCTCTGTTGCTTGACAACATGAAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGTTGGGGTGACCAACTCATCTGGACTCAGACATATGAAGAAGCTCTATATAAATCCAAG
                                                                                                                                                                                                                                                                                                                                                                                                     Application 0020177552A1
                                                                                                                                                                                                                                                sapien
                                                                                                                                                      1.75e-114
964.00
99.478
99.478
99.478
90.698
                                                                                                                                                                                                                                                                                                                                                                                                              US/09878178
                                                                                                                                                                                                                                                                                                                                                                                                                                                       569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          206
                                                                                                                                                    Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                      188
0
1
0
0
                                                                                                                                                                                                                                                                                                                                                  THERAPY
                                                 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            182
                            77
                                                                   57
                                                                                         62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97
                                                                                                             37
```

```
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER FILE REFERENCE: 210121.527C1
CUBRENT APPLICATION UMMBER: US/10/046,935
CURRENT FILING DATE: 2002-01-15
NUMBER OF SEQ ID NOS: 2239
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1331
LENGTH: 554
TYPE: DATE: 100
             Qy
                                 В
                                                  δõ
                                                                     Вb
                                                                                                                                                                                                                                                                                                                                                                                                            Ωy
                                                                                                                                                                                                                                                                                                                                                                                                                              В
                                                                                                                                                                                                                                                                                                                                                                                                                                              δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Вр
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    д
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QΥ
                                                                                    Ş
                                                                                                                                Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                    US-10-046-935-1331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Вр
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                     US-09-674-266A-181 (1-206) x US-10-046-935-1331
                                                                                                                                                                   Alignment
Pred. No.:
                                                                                                                                                                                            US-10-046-935-1331
                                                                                                                                                  Percent Similarity:
                                                                                                                                                         Score:
                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION: APPLICANT: Jiang, Y
                                                                                                                                                                                                                                                                                                                                                  Sequence 1331, Application Patent No. US20020156011A1
                                                                                                                                                                                                                                                                                               APPLICANT: Wang, Aijun APPLICANT: Stolk, John A.
                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                   ORGANISM: Homo
                                                                                                                                                                   No.:
                                                                                                                                                                                                                                                                                                                                                                                             543
121
                                                                                                                                                                                                                                                                                                                                                                                                             198
                                                                                                                                                                                                                                                                                                                                                                                                                               483
                                                                                                                                                                                                                                                                                                                                                                                                                                               178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      183
                                                                                                                                                                                                                                                                                                                                                                            10
                  53
                                   61
                                                   \omega
                                                                                      13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      78
                                                                     __
GluLysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArg
                                                                    ProHisProSerArgArgLeuThrGlnGlyArgTrpValArgLySSerArgValAlaMet
                                                                                                                                                                                                                                                                                                                                                                                           LeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAspGlyGlnTyrValPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCCAATCTGGTTTATGAAACAACTGACAAACACCTTTCTCCTGATGGCCAGTATGTCCCC
                                                                                                                                                                                                                                                                                                                 Harlocker, Susan
Secrist, Heather
                                                                                                                        1.25e-113
957.00
100.00%
100.00%
90.03%
                                                                                                                                                                                                                                                                                                                          Susan
                                                                                                                                                                                                                                                                                                                                                           US/10046935
                                                                                                                                                                                                                                                                                                                         ŗ
                                                                                                                              Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                CANCER
                                                                                                      (1-554)
                                                                                                                                                                                                                                                                                        THE
                                                                                                                        184
0
0
                                                                                                                                                                                                                                                                                        THERAPY
                                   120
                                                                                                                                                                                                                                                                                                                                                                                                                                               197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                177
 180
                 72
                                                   52
                                                                     60
                                                                                                                                                                                                                                                                                                                                                                                                                              542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      242
                                                                                     32
```

۲,

Fri

```
Sequence 1311, Application US/09878178

Patent No. US20020177552A1

GENERAL INFORMATION:
APPLICANT: Jiang, Yuqiu
APPLICANT: Jiang, Yuqiu
APPLICANT: Secrist, Heather

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
FILE REFERENCE: 210121.527
CURRENT APPLICATION NUMBER: US/09/878,178
CURRENT FILING DATE: 2001-06-08
NUMBER OF SEQ ID NOS: 2237
SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 1331
LENGTH: 554
Type: DNA
ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ъ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Вþ
                                                                                                                                                                                    Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-878-178-1331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δÕ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                           δõ
                                                                    В
                                                                                        Š
                                                                                                            В
                                                                                                                                     δÃ
                                                                                                                                                                                                                                  Alignment Scores: Pred. No.: Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δÃ
 õ
                      B
                                                                                                                                                              US-09-674-266A-181 (1-206) x US-09-878-178-1331 (1-554)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            193 AspAsnMetLys 196
|||||||||||||
| 541 GACAACATGAAG 552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                        121
                                             53
                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    73
  73
                                                                                             ^{3}
                                                                                                                                        13
                                                                                                               ProHisProSerArgArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla
GlnThrLeuSerArgGlyTrpGlyAspGlnLeuIleTrpThrGlnThrTyrGluGluAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LeuTyrLysSerLysThrSerAsnLysProLeuMetIleIleHisHisLeuAspGluCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GlnThrLeuSerArgGlyTrpGlyAspGlnLeuIleTrpThrGlnThrTyrGluGluAla
                        GATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAAACTGCCC
                                    AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCACACAGTCAAGCTTTAAAGAAAGTGTTTGCTGAAAATAAAGAAATCCAGAAATTGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTATATAAATCCAAGACAAGCAACAAACCCTTGATGATTATTCATCACCTTGGATGAGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGACCCTCTCCAGAGGTTGGGGTGACCAACTCATCTGGACTCAGACATATGAAGAAGCT
                                                                                                                                                                                     1.25e-113
957.00
100.00%
100.00%
90.03%
                                                                                                                                                                                   Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                    554
184
0
                      180
                                                                      120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      112
                                             72
                                                                                                                60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   92
```

```
APPLICANT: Jiang, Yuqiu
APPLICANT: Harlocker, Susan L.
APPLICANT: Secrist, Heather
APPLICANT: Secrist, Heather
APPLICANT: Wang, Aljun
APPLICANT: Stolk, John A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
FILE REFERENCE: 210121.527C1
CURRENT APPLICATION NUMBER: US/10/046,935
CURRENT FILING DATE: 2002-01-15
NUMBER OF SEQ ID NOS: 2239
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1481
                                                                                                                                                                                                                              LENGTH: 600
TYPE: DNA
ORGANISM: HOMO SapienS
FEATURE:
NAME/KBY: misc_feature
LOCATION: 581
OTHER INFORMATION: n = A
US-10-046-935-1481
                                            20
                                                                                         Qy
                                                                                                                                        Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    QΥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ъ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ъ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ъ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ДЬ
 δã
                     Вb
                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-046-935-1481
                                                                                                                 US-09-674-266A-181 (1-206) x US-10-046-935-1481 (1-600)
                                                                                                                                                             Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                     Score:
                                                                                                                                                                                                Pred.
                                                                                                                                                                                                       Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1481, Application US/10046935 Patent No. US20020156011A1 GENERAL INFORMATION:
                                                                                                                                                                                                No
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                  54
                         45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ThrGlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AspAsnMetLys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGln
                                  LysIleProValSerAlaPheLeuLeuLeuValAlaLeuSerTyrThrLeuAlaArgAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GACAACATGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACTGGAAGATATTCAAATCGTCTCTATGCTTACGAACCTGCAGATACAGCTCTGTTGCTT
                        AAAATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTTCCTACACTCTGGCCAGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 552
                                                                                                                                        3.65e-112
946.00
96.89%
96.37%
88.99%
                                                                                                                                                                                                                                             A, T, C
                                                                                                                                                                                                                                             õ
                                                                                                                                     Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                   186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         112
                        104
                                              53
                                                                    44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
```

```
APPLICANT: Jiang, Yuqiu
APPLICANT: Harlocker, Susan L.
APPLICANT: Secrist, Heather
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
FILE REFERENCE: 210121.527
CURRENT APPLICATION NUMBER: US/09/878,178
CURRENT FILING DATE: 2001-06-08
NUMBER OF SEQ ID NOS: 2237
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1481
LENGTH: 600
                          Ş
                                                     밁
                                                                       8
                                                                                                                                        Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                       NAME/KEY: misc_feature; LOCATION: (1)...(600); OTHER INFORMATION: n = US-09-878-178-1481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ωy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Вb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      д
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Qy
● B
                                                                                                US-09-674-266A-181
                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-878-178-1481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ъ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 В
                                                                                                                                                                                  Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1481, Application Patent No. US20020177552A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                 ORGANISM: Homo sapien FEATURE:
                                                                                                                                                                          NO . .
                                                                                                                                Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      154
                                                    45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIleThr
           GlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuLeuAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAspGly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ThrLeuSerArgGlyTrpGlyAspGlnLeuIleTrpThrGlnThrTyrGluGluAlaLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGTTTGTCCTCCTCAATCTGGTTTATGAAACAACTGACAAACACCTTTCTCCTGATGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGAAGATATTCAAATCGTCTCTATGCTTACGAACCTGCAGATACAGCTCTGTTGCTTGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCCTCTCCAGAGGTTGGGGTGACCAACTCATCTGGACTCAGACATATGAAGAAGCTCTA
                                                                                               (1-206)
                                                                                                                     3.65e-112
946.00
96.89%
96.37%
88.99%
                                                                                               ×
                                                                                                                                                                                                                  A, T, C
                                                                                                US-09-878-178-1481
                                                                                                                                                                                                                                                                                                                                                                                                                                 us/09878178
                                                                                                                                                                                                                  or
                                                                                                                                                                                                                  G
                                                                                                                  Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                              (1-600)
                                                                                                                                                                                                                                                                                                                                                                  THE
                                                                                                                  186
0
1
1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         93
                               53
                                                    44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         404
```

نر }

```
; SEQ ID NO 1
; LENGTH: 543
; TYPE: DNA
; ORGANISM: human
US-09-792-439-1
                                                                                                                                                                                                                                                                                           APPLICANT: Boyd, Robert Simon
APPLICANT: Stamps, Alasdair Craig
APPLICANT: Terrett, Jonathan Alexander
APPLICANT: Terrett, Jonathan Alexander
APPLICANT: Tyson, Kerry Louise
TITLE OF INVENTION: Diagnostic and Therapeutic Me:
FILE REFERENCE: 2543-1-005N
CURRENT APPLICATION UNMBER: US/09/792,439
CURRENT FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: GB 0004576.5
PRIOR FILING DATE: 2000-02-25
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSEQ for Windows Version 4.0
 밁
                     Qy
                                                  В
                                                                         Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Дb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Вþ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      рЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Вр
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δõ
                                                                                                     US-09-674-266A-181
                                                                                                                                                     Percent Similarity:
Best Local Similari
                                                                                                                                                                               Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 14
US-09-792-439-1
                                                                                                                                         Query
                                                                                                                                                                                            Pred.
                                                                                                                                                                                                        Alignment Scores
                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1, Application US/09792439 Patent No. US20020111303A1
                                                                                                                                                                                            No . .
                                                                                                                                          Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       194
  62
                         49
                                                                            29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    54
ArgValAlaMetGluLysIleProValSerAlaPheLeuLeuLeuValAlaLeuSerTyr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuLeuAsp 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIleThr 173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAspGly 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGTATGTCCCCAGGATTATGTTTGTTGACCCATCTCTGACAGTTAGAGCCGATATCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGlu 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TATAAATCCAAGACAAGCAACCAAACCCTTGATGATTATTCATCACTTGGATGAGTGCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TyrLysSerLysThrSerAsnLysProLeuMetIleIleHisHisLeuAspGluCysPro 113
                                                  AGAGTTGCCATGGAGAAAATCCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGTTTGTCCTCCTCAATCTGGTTTATGAAACAACTGACAAACACCTTTCTCCTGATGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CACAGTCAAGCTTTAAAGAAAGTGTTTTGCTGAAAATAAAGAAATCCAGAAATTGGCAGAG
                                                                                                                                                      Similarity:
                                                                                                  (1-206) x US-09-792-439-1 (1-543)
                                                                                                                            7.22e-108
912.00
100.00%
100.00%
85.79%
                                                                                                                          Conservative: Mismatches: Indels: Gaps:
                                                                                                                                                                               Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               563
                                                                                                                            543
178
0
0
                         68
                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           164
```

```
APPLICANT: Xu, Jiangchun
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
FILE REFERENCE: 210121.552
CURRENT APPLICATION NUMBER: US/09/919,580
CURRENT FILING DATE: 2001-07-30
NUMBER OF SEQ ID NOS: 934
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 786
LENCTH: 537
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ş
                                                                                                                                                      Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Db
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      망
 Ş
                         B
                                              Qy
                                                                            В
                                                                                                Qy
                                                                                                                                                                                                                                                       ; NAME/KEY: misc_feature
; LOCATION: 516
; OTHER INFORMATION: n =
US-09-919-580-786
                                                                                                                            US-09-674-266A-181 (1-206) x US-09-919-580-786 (1-537)
                                                                                                                                                                                                       Score:
                                                                                                                                                                                                                               Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-919-580-786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 786, Application US/09919580 Patent No. US20020110832A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Pyle,
                                                                                                                                                                                                                     NO . .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       182
                                                                           89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                69
  53
                                                  ü
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GluLysIleProValSerAlaPheLeuLeuLeuValAlaLeuSerTyrThrLeuAlaArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AlaLeuLeuLeuAspAsnMetLysLysAlaLeuLysLeuLeuLysThrGluLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCTCTGTTGCTTGACAACATGAAGAAAGCTCTCAAGTTGCTGAAGACTGAATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ProLysLeuProGlnThrLeuSerArgGlyTrpGlyAspGlnLeuIleTrpThrGlnThr
AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGAGCCGATATCACTGGAAGATATTCAAACCGTCTCTATGCTTACGAACCTGCAGATACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ArgAlaAspIleThrGlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TATGAAGAAGCTCTATATAAATCCAAGACAAGCAACAAACCCTTGATGATTATTCATCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TyrGluGluAlaLeuTyrLysSerLysThrSerAsnLysProLeuMetIleIleHisHis 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCCAAACTGCCCCAGACCCTCTCCAGAGGTTGGGGTGACCAACTCATCTGGACTCAGACA
                          GAGAAAATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACTCTGGCCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ruth
                                                                                                                                                     3.3e-106
899.00
97.75%
97.75%
84.57%
                                                                                                                                                                                                                                                                    A, T, C
                                                                                                                                                                                                                                                                    or
                                                                                                                                                                                                                                                                      G
                                                                                                                                                                                         Length:
Matches:
Conservative:
                                                                                                                                                                 Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              535
  72
                         122
                                                  52
                                                                            62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                    32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                88
```

```
Qy
                                                                                                               Š
                                                                                                                                              Qy
                                                                                                                                                                              Оy
                δÃ
                                                                Ъ
                                                                              δÃ
                                                                                               Вb
                                                                                                                                B
                                                                                                                                                               Db
                                                                                                                                                                                               밁
 В
                                DЬ
 483
                                 423
                                                                363
                                                                                 133
                                                                                                303
                                                                                                                113
                                                                                                                                243
                                                                                                                                                                                                123
                                                153
                                                                                                                                                                183
                                                                                                                                                 93
                                                                                                                                                                               73
                                                                                                                                                              GlyGlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle
                                                                        GluGlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAsp
                                                                                                       ProHisSerGinAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla
                                                                                                                              GAGCAGTTTGTCCTCCTCAATCTGGTTTATGAAACAACTGACAAACACCTTTCTCCTGAT
                                                                                                CCACACAGTCAAGCTTTAAAGAAAGTGTTTGCTGAAAATAAAGAAATCCAGAAATTGGCA
                                 GGCCAGTATGTCCCCAGGATTATGTTTGTTGACCCCATCTCTGACAGTTAGAGCCGATATC
                                 482
                                                172
                                                                422
                                                                                152
                                                                                                362
                                                                                                                132
                                                                                                                                302
                                                                                                                                                112
                                                                                                                                                                242
                                                                                                                                                                              92
                                                                                                                                                                                               182
```

Search completed: March 13, 2003, 20:47:30 Job time: 106 secs

